



WESTCOAST TRANSMISSION COMPANY LIMITED

ALIGNMENT SHEETS

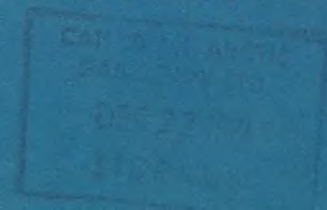


TABLEAU C t 4

COMPARAISON POUR 1966 DE L'UTILISATION DU TRANSPORT EN COMMUN A L'AIDE DU MODELE A DEMANDE DIRECTE ET DU MODELE DE REPARTITION PAR MODE POUR LA PERIODE DE POINTE DU SOIR

	Répartition par mode	
	1966 modèle pour la superzone	Recensement de 1966*
- Voyages générés au centre-ville	34.9	35.8
- Voyages attirés par le centre-ville	37.2	28.6
- Voyages de la région à l'étude excluant les voyages du centre-ville	13.9	12.5
- Voyages totaux de la région à l'étude	20.8	20.8

Source: Vandry-Jobin, Vol. II, pages 2 et 35.

et Québec; l'étude de 1966 * donne respectivement 6,300 et 3,400 usagers.

La calibration a d'abord été faite en utilisant une valeur de la constante supérieure de 15% à celle du modèle de Seekings parce que cette façon de procéder donnait un meilleur ajustement aux données de Toronto agrégées au niveau de superzones.

Dans le cas de Québec, cependant, il s'est avéré que la valeur du modèle original donnait une meilleure approximation: l'utilisation de cette valeur donnait à 5% près le nombre total de voyages par transport en commun tel que donné par le recensement de 1966.

E Allocation par mode en 1991

Une fois faite la distribution des voyages générés et attirés pour 1991, le nombre total de voyages entre chaque origine et chaque destination a été séparé en voyages par transport en commun et par voyages par automobile à l'aide du modèle de demande directe, selon le format décrit en C.5.3. Ce travail a été fait séparément pour chacun des sept systèmes de transport en commun étudiés, chacun étant affecté des temps de marche, d'attente et de correspondance ainsi que de la durée du trajet et des coûts de trajet qui lui étaient propres.

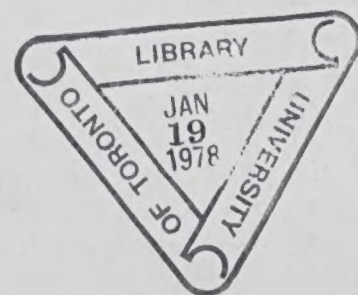
F Nombre de voyages quotidiens et annuels des personnes

La répartition par mode a été calculée séparément pour la période de pointe et hors de la période de pointe pour le réseau neutre en 1991.

* Vandry-Jobin, Vol. I, page 92.

Comme il s'est avéré que la différence totale dans la répartition par mode différait par moins de 1%, selon que l'on était en période de pointe ou non et que les entrants, dans les deux, ne différaient que légèrement, nous nous en sommes tenus aux seuls calculs de la période de pointe en posant que les résultats s'appliquaient tels quels hors de la période de pointe. Le trafic quotidien a été calculé sur la base des facteurs décrits en C.4.1.

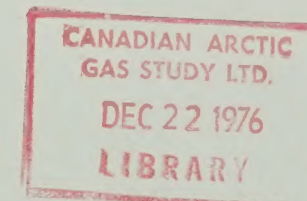
Le nombre total de personnes-voyages annuel a été obtenu en multipliant les voyages quotidiens par 300.

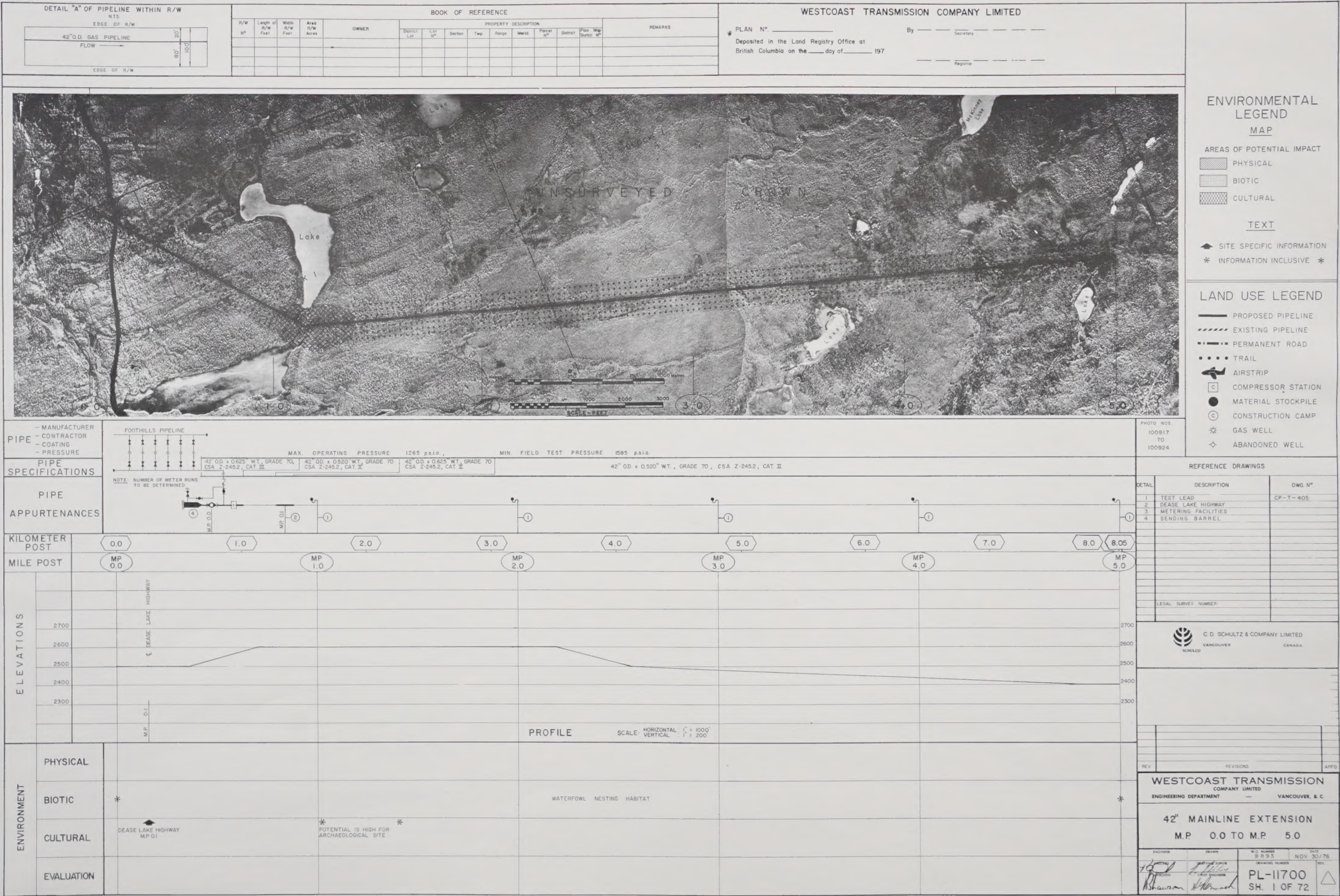


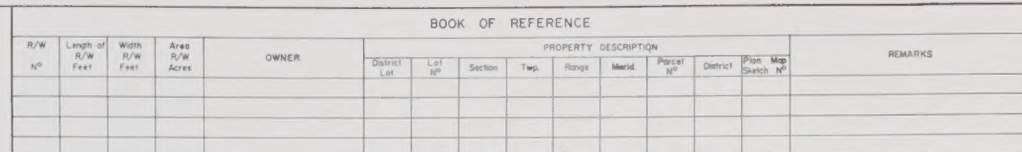
IN THE MATTER OF the National Energy Board Act
AND IN THE MATTER OF an international pipeline

AND IN THE MATTER OF an application by Westcoast
Transmission Company Limited for a Certificate of
Public Convenience and Necessity to construct certain
pipeline in British Columbia

VOLUME IV
Yukon Pipeline Project
ALIGNMENT SHEETS
15 November 1976







PLAN No. _____ By _____ Secretary _____
Deposited in the Land Registry Office at _____
British Columbia on the _____ day of _____, 197 _____

Registrar _____

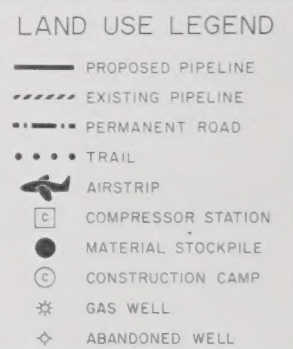
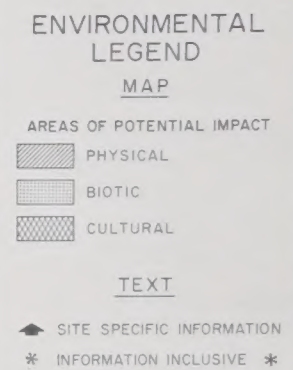
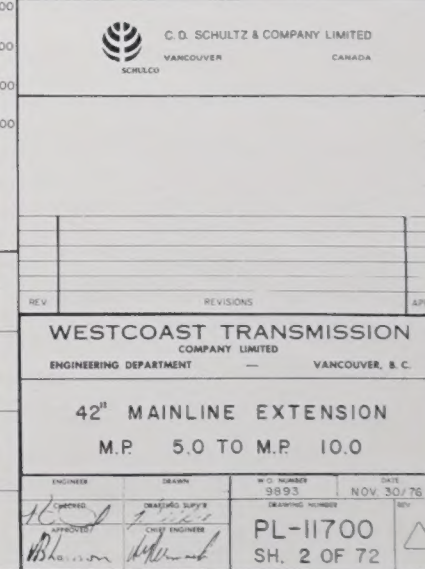
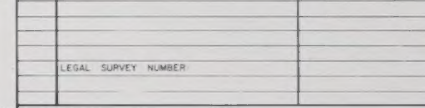


PHOTO NOS
100925
TO
100930

REFERENCE DRAWINGS

DETAIL	DESCRIPTION	DWG. N°
1	TEST LEAD	CP-T-405
2	CORMIER CREEK CROSSING	PL-TM-126
3	COMPRESSOR STATION A-1	



DETAIL "A" OF PIPELINE WITHIN R/W
N.T.S.
EDGE OF R/W
42" O.D. GAS PIPELINE
FLOW
EDGE OF R/W

BOOK OF REFERENCE															
R/W Nº	Length of R/W Feet	Width R/W Feet	Area R/W Acres	OWNER	PROPERTY DESCRIPTION										REMARKS
					District List	Lot Nº	Section	Twp.	Range	Merid.	Parcel Nº	District	Plan Sketch Nº	Map	

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN Nº _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____
Registrar _____

ENVIRONMENTAL
LEGEND
MAP

AREAS OF POTENTIAL IMPACT
PHYSICAL
BIOTIC
CULTURAL

TEXT
SITE SPECIFIC INFORMATION
* INFORMATION INCLUSIVE *

LAND USE LEGEND

PROPOSED PIPELINE
EXISTING PIPELINE
PERMANENT ROAD
TRAIL
AIRSTRIp
COMPRESSOR STATION
MATERIAL STOCKPILE
CONSTRUCTION CAMP
GAS WELL
ABANDONED WELL

UNSURVEYED CROWN LAND

12.0 13.0 14.0 15.0

SCALE - FEET

PIPE
- MANUFACTURER
- CONTRACTOR
- COATING
- PRESSURE

MAX. OPERATING PRESSURE 1265 p.s.i.g., MIN. FIELD TEST PRESSURE 1585 p.s.i.g.

PIPE SPECIFICATIONS
42" O.D. X 0.520" WT., GRADE 70, CSA Z-245.2, CAT II

PIPE APPURTENANCES

KILOMETER POST
MILE POST

16.1 17.0 18.0 19.0 20.0 21.0 22.0 23.0 24.0 24.15
MP 10.0 MP 11.0 MP 12.0 MP 13.0 MP 14.0 MP 15.0

ELEVATIONS

2500 2400 2300 2200

PROFILE
SCALE HORIZONTAL 1" = 1000'
VERTICAL 1" = 200'

ENVIRONMENT

PHYSICAL
BIOTIC
CULTURAL
EVALUATION

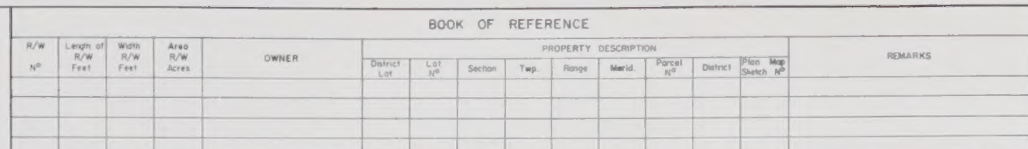
PHOTO NOS.
100931
TO
100935

REFERENCE DRAWINGS
DETAIL DESCRIPTION DWG. Nº
I TEST LEAD CP-T-405
LEGAL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B. C.
42" MAINLINE EXTENSION
M.P. 10.0 TO M.P. 15.0
ENGINEER DRAWN
9893 NOV. 30/76
DRAWING NUMBER
PL-11700
SH. 3 OF 72

PACIFIC SURVEY CORPORATION



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DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W

42" O.D. GAS PIPELINE
FLOW

EDGE OF R/W

BOOK OF REFERENCE

R/W
N°

Length of
R/W
Feet

Width
R/W
Feet

Area
R/W
Acres

OWNER

PROPERTY DESCRIPTION

District
Lot

Section

Trwp

Range

Merid

Parcel
N°

District

Plan Map
Sheet N°

REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN N°

Deposited in the Land Registry Office at
British Columbia on the day of 197

By Secretary

Registrar

ENVIRONMENTAL
LEGEND
MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

PIPE

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

MAX. OPERATING PRESSURE 1265 p.s.i.g., MIN. FIELD TEST PRESSURE 1585 p.s.i.g.
42" O.D. x 0.520" WT., GRADE 70, CSA Z-245.2, CAT. II

PIPE APPURTENANCES

KILOMETER POST

MILE POST

ELEVATIONS

PROFILE

SCALE: HORIZONTAL 1" = 1000'
VERTICAL 1" = 200'

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

VALLEY WALL FAILURE

FISH MOVEMENTS SHOULD NOT BE BLOCKED

POTENTIAL IS HIGH FOR ARCHAEOLOGICAL SITES

REFERENCE DRAWINGS

DETAIL DESCRIPTION DWG. N°

1 TEST LEAD CP-T-405

2 TREPANIER CREEK CROSSING PL-TM-126

3 BLACK ANGUS CREEK CROSSING PL-TM-126

LEGAL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

42" MAINLINE EXTENSION
M.P. 25.0 TO M.P. 30.0

ENGINEER

DRAWN

NO. NUMBER

DATE

NOV. 30/76

PL-11700
SH. 6 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W

42" O.D. GAS PIPELINE

BOOK OF REFERENCE

OWNER

PROPERTY DESCRIPTION

REMARKS

PLAN N°

Deposited in the Land Registry Office at British Columbia on the ____ day of ____ 197

By

Register

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

PIPE SPECIFICATIONS

MANUFACTURER

CONTRACTOR

COATINGS

PIPE APPURTENANCES

KILOMETER POST

MILE POST

ELEVATIONS

PROFILE

SCALE

HORIZONTAL

VERTICAL

REFERENCE DRAWINGS

DESCRIPTION

DWG. N°

TEST LEAD

MALCOLM CREEK CROSSING

KASKA CREEK CROSSING

CP-T-405

PL-TM-126

P-TM-26

C. D. SCHULTZ & COMPANY LIMITED

VANCOUVER

CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT

VANCOUVER, B.C.

42" MAINLINE EXTENSION

M.P. 30.0 TO M.P. 35.0

PL-11700

SH 7 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W

N.T.S.

EDGE OF R/W

42" O.D. GAS PIPELINE FLOW →

EDGE OF R/W

R/W No.	Length of R/W Feet	Width of R/W Feet	Area of R/W Acres	OWNER	District Lot #	Section	Twp	Range	Mdld	Pctcl #	District Plan Map Sheet #	REMARKS

BOOK OF REFERENCE

PLAN N° _____ By _____

Deposited in the Land Registry Office at British Columbia on the ____ day of _____ 197____

ENVIRONMENTAL LEGEND MAP

- AREAS OF POTENTIAL IMPACT
- PHYSICAL
- BIOTIC
- CULTURAL

TEXT

- SITE SPECIFIC INFORMATION
- * INFORMATION INCLUSIVE *

LAND USE LEGEND

- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT ROAD
- TRAIL
- AIR TRAP
- COMPRESSOR STATION
- MATERIAL STOCKPILE
- CONSTRUCTION CAMP
- GAS WELL
- ABANDONED WELL

UNSURVEYED CROWN LAND

SCALE - FEET

MAX OPERATING PRESSURE 1265 psia, MIN FIELD TEST PRESSURE 1585 psia
42" O.D x 0.520" WT, GRADE 70, CSA Z-245.2, CAT II.

PIPE APPURTENANCES

KILOMETER POST MILE POST

ELEVATIONS

PROFILE

SCALE HORIZONTAL VERTICAL

REFERENCE DRAWINGS

DESCRIPTION	DWG. NO.
TEST LEAD	CP-T-405
TATISNO CREEK CROSSING	PL-TM-126
CREEK CROSSING	PL-TM-126

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT VANCOUVER, B.C.

42" MAINLINE EXTENSION

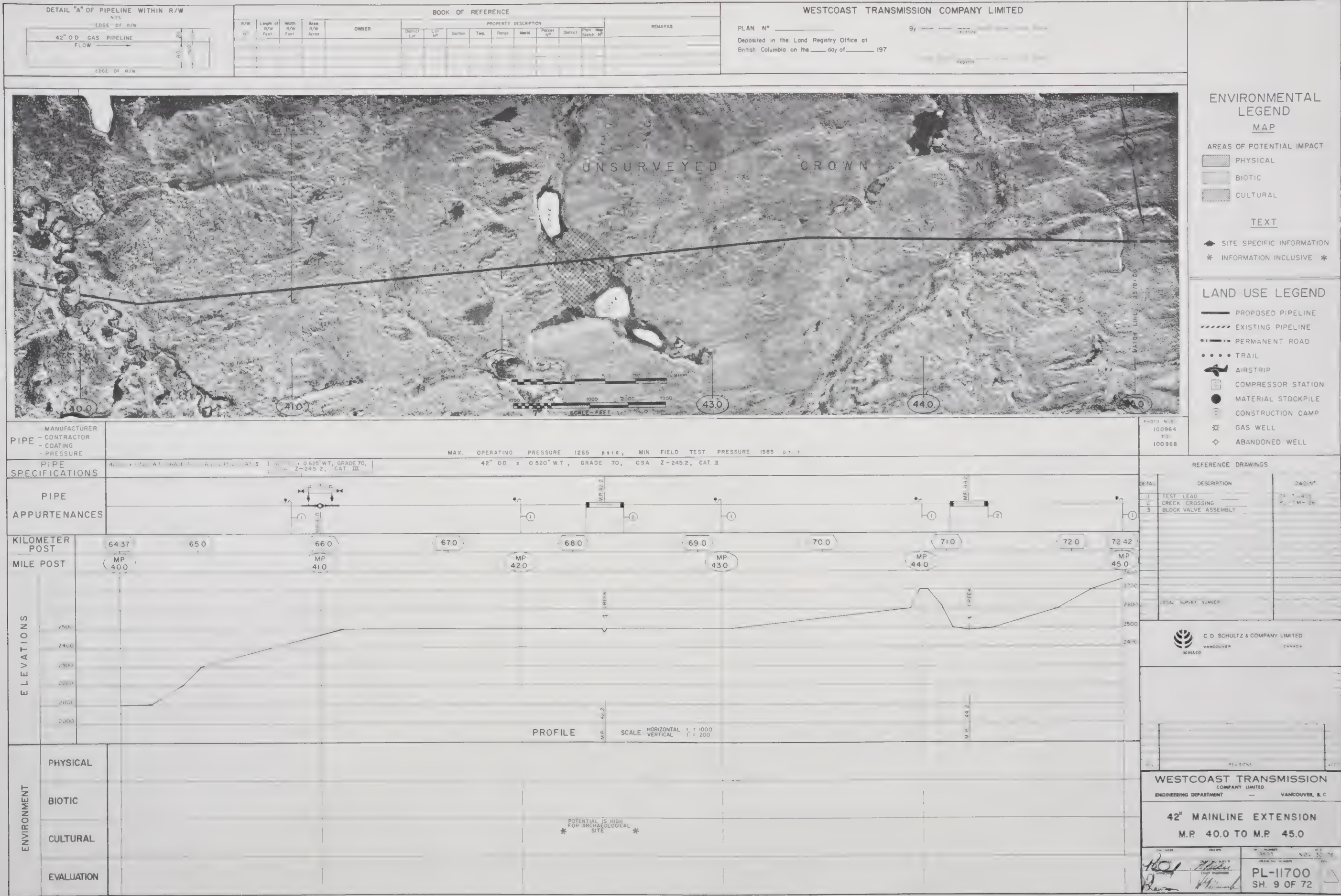
M.P. 35.0 TO M.P. 40.0











FISH MOVEMENTS SHOULD NOT BE BLOCKED

POTENTIAL IS HIGH FOR ARCHAEOLOGICAL SITE

NOV 30 / 76

PL-I1700 SH. 8 OF 72



-  PROPOSED PIPELINE
-  EXISTING PIPELINE
-  PERMANENT ROAD
-  TRAIL
-  AIRSTRIP
-  COMPRESSOR STATION
-  MATERIAL STOCKPILE
-  CONSTRUCTION CAMP
-  GAS WELL
-  ABANDONED WELL

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C D SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

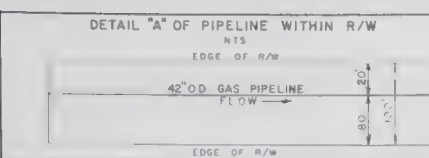
WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT — VANCOUVER, B. C.

42" MAINLINE EXTENSION
M.P. 50.0 TO M.P. 55.0

(CIV. 11100) 11/10/72 11/10/72 11/10/72	(CIV. 11100) 11/10/72 11/10/72 11/10/72	11/10/72 11/10/72 11/10/72 11/10/72	11/10/72 11/10/72 11/10/72 11/10/72
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DETAIL "A" OF PIPELINE WITHIN R/W							BOOK OF REFERENCE																WESTCOAST TRANSMISSION COMPANY LIMITED									
R/W No.	Length of R/W Feet	Width of R/W Feet	Area of R/W Acres	OWNER	District Lot	Section	Twp	Range	Md	Parcel No.	District	Plan Sheet No.	Map Sheet No.	REMARKS	PLAN NO.	By	Date	Secretary														
<p>SURVEYED BY CROWN LAND</p> <p>SCALE - FEET 0 100 200 300 400 500 600</p>																					ENVIRONMENTAL LEGEND											
																					MAP											
																					AREAS OF POTENTIAL IMPACT											
																					PHYSICAL											
																					BIOTIC											
																					CULTURAL											
																					TEXT											
																					SITE SPECIFIC INFORMATION											
																					* INFORMATION INCLUSIVE *											
																					LAND USE LEGEND											
																					PROPOSED PIPELINE											
																					EXISTING PIPELINE											
																					PERMANENT ROAD											
																					TRAIL											
																					AIRSTRIP											
																					COMPRESSOR STATION											
																					MATERIAL STOCKPILE											
																					CONSTRUCTION CAMP											
																					GAS WELL											
																					ABANDONED WELL											
PIPE MANUFACTURE		MAX. OPERATING PRESSURE 1265 psia, MIN FIELD TEST PRESSURE 1585 psia																			100983 TO 100988											
CONTRACTOR																																
COATING																																
PRESSURE																																
PIPE SPECIFICATIONS		42" OD x 0.520" WT, GRADE 70, CSA Z-245.2, CAT II																														
PIPE APPURTENANCES																																
KILOMETER POST	96.56 97.0 98.0 99.0 100.0 101.0 102.0 103.0 104.0 104.61																															
MILE POST	MP 60.0 MP 61.0 MP 62.0 MP 63.0 MP 64.0 MP 65.0																															
ELEVATIONS	 SCALE: HORIZONTAL 1" = 1000' VERTICAL 1" = 200' PROFILE																															
ENVIRONMENT	PHYSICAL																															
	BIOTIC																															
	CULTURAL																															
	EVALUATION																															
REFERENCE DRAWINGS																																
DRAWING DESCRIPTION DWG NO.																																
2 WEST LAKE CREEK CROSSING CP-T-40-S PL-TM-26																																
LEGAL SURVEY NUMBER																																
SCHULZ & COMPANY LIMITED VANCOUVER CANADA																																
WESTCOAST TRANSMISSION COMPANY LIMITED ENGINEERING DEPARTMENT VANCOUVER, B.C.																																
42" MAINLINE EXTENSION M.P. 60.0 TO M.P. 65.0																																

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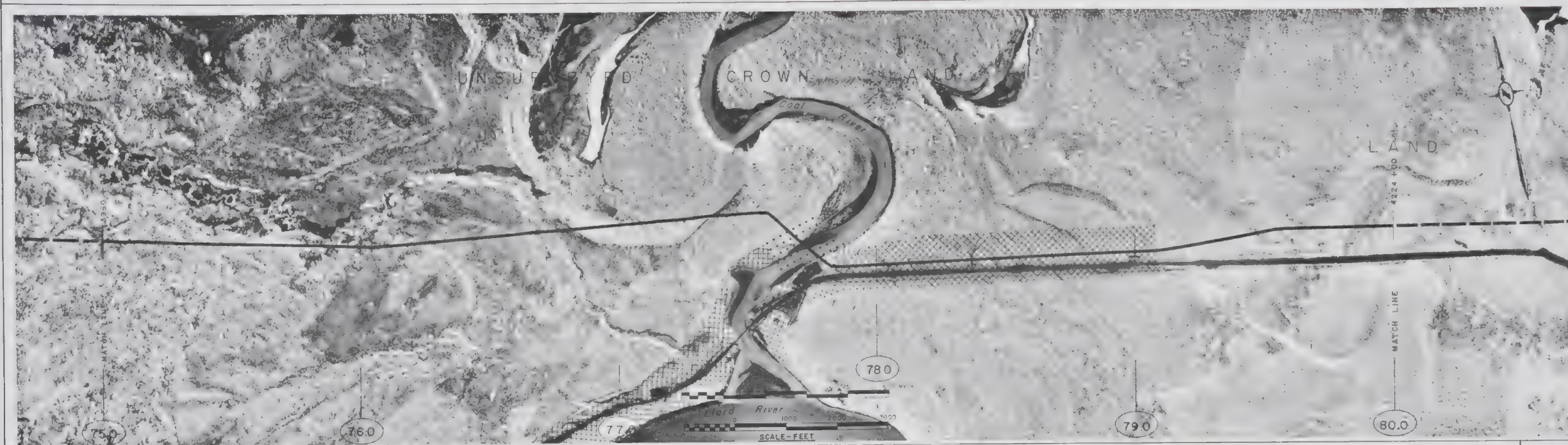
WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN N°. _____

Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197

By _____ Secretary

_____ Registrar



ENVIRONMENTAL LEGEND MAP

AREAS OF POTENTIAL IMPACT

☐ PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

* INFORMATION INCLUSIVE *

LAND USE LEGEND

— PROPOSED PIPELINE

///// EXISTING PIPELINE

••—•• PERMANENT ROAD

• • • • TRAIL

AIRSTRIP COMPRESSOR STATION

● MATERIAL STOCKPILE

(C) CONSTRUCTION CAMP

 GAS WELL

✧ ABANDONED WELL

PIPE - MANUFACTURE
- CONTRACTOR
- COATING
- PRESSURE

PIPE SPECIFICATIONS	
1	2
3	4
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81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

PIPE
APPURTENANCES

KILOMETER POST	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835
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MILE POST

ELEVATIONS

ENVIRONMENT

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

MAX OPERATING PRESSURE 1265 p.s.i.g. MIN FIELD TEST PRESSURE 1585 p.s.i.g.

42° O.D. 1 0.520" W.T. GRADE 70. CSA 2 - 245.2. CAT II

42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT. II

42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2 CAT II

PHOTO NOS
101000
TO
101004

REFERENCE DRAWINGS

DETAIL	DESCRIPTION	DWG. NO.
1	TEST LEAD _____	CP-T-405
2	COAL RIVER CROSSING _____	
(1)	_____	

(5)	_____	

	LEGAL SURVEY NUMBER _____	



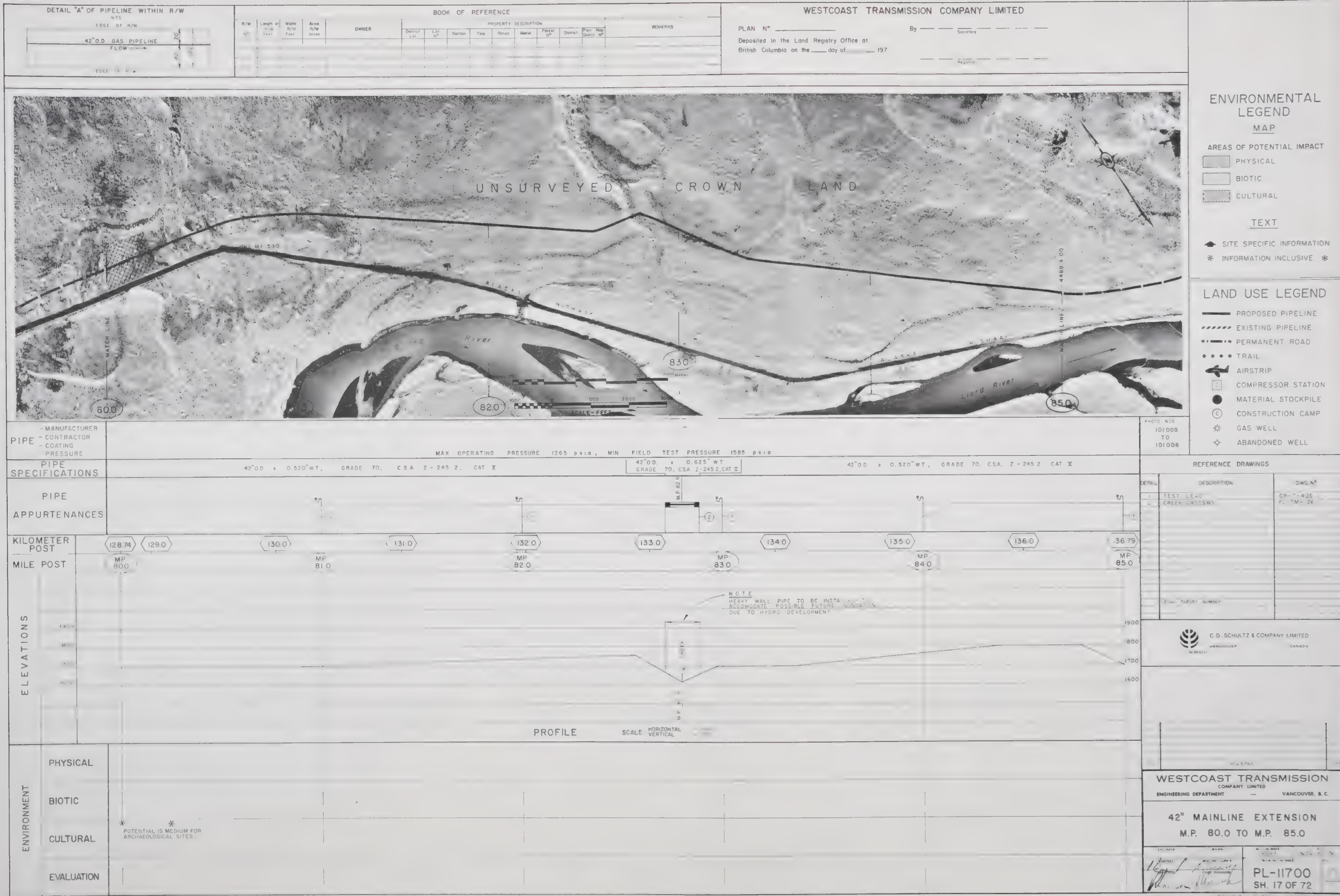
C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

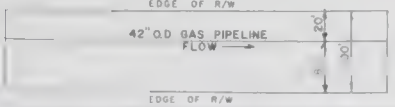
WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER B.C.

42" MAINLINE EXTENSION
M.P. 75.0 TO M.P. 80.0

PL-11700
SH. 16 OF 72

PACIFIC SURVEY



DETAIL "A" OF PIPELINE WITHIN R/W
N.T.S.


BOOK OF REFERENCE

R/W No	Length of R/W Feet	Width R/W Feet	Area R/W Acres	OWNER	PROPERTY DESCRIPTION										REMARKS
					District Lot	Lot No	Section	Twp	Range	Merid	Parcel No	District	Plan Map Sheet No		

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN No _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____
Registrar _____



ENVIRONMENTAL
LEGEND
MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIp

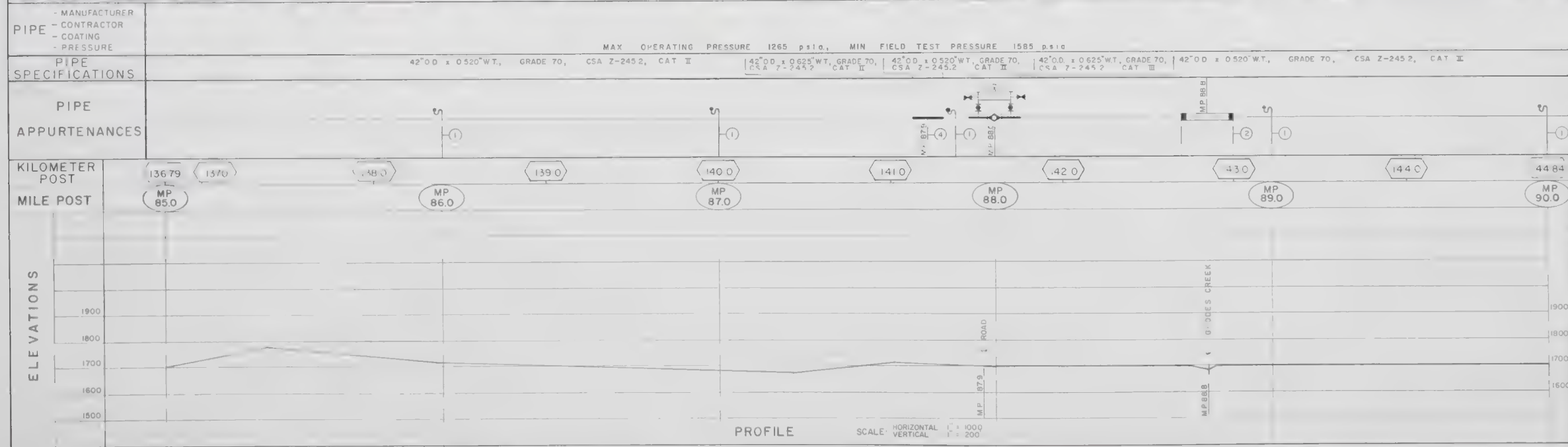
COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL



REFERENCE DRAWINGS

DETAIL

DESCRIPTION

DRAWN BY

1

TEST LEAD

7.0

2

GEDDES CREEK CROSSING

7.0

3

BLOCK VALVE ASSEMBLY

7.0

4

ROAD CROSSING

7.0

LEGAL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED

VANCOUVER

CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED

ENGINEERING DEPARTMENT

VANCOUVER, B. C.

42" MAINLINE EXTENSION

M.P. 85.0 TO M.P. 90.0

NO. 9893

DATE NOV 30/76

9893

NOV 30/76

PL-11700

SH. 18 OF 72

PACIFIC SURVEY CORPORATION

DETAIL "A" OF PIPELINE WITHIN R/W

EDGE OF R/W

42" O.D. GAS PIPELINE

EDGE OF R/W

80' 20'

100'

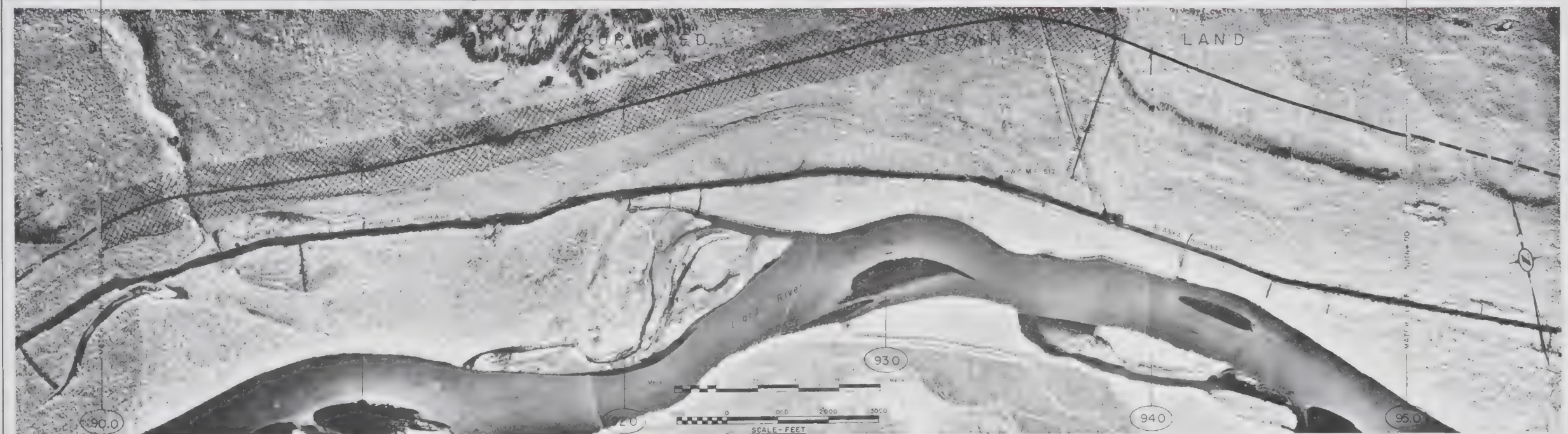
BOOK OF REFERENCE

OWNER	PROPERTY DESCRIPTION										REMARKS
	District Lot	Lot No	Section	Twp	Range	Merid	Parcel No	District	Plan Map Sketch No		

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN N° _____ By _____ Secretary _____

Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____



ENVIRONMENTAL
LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

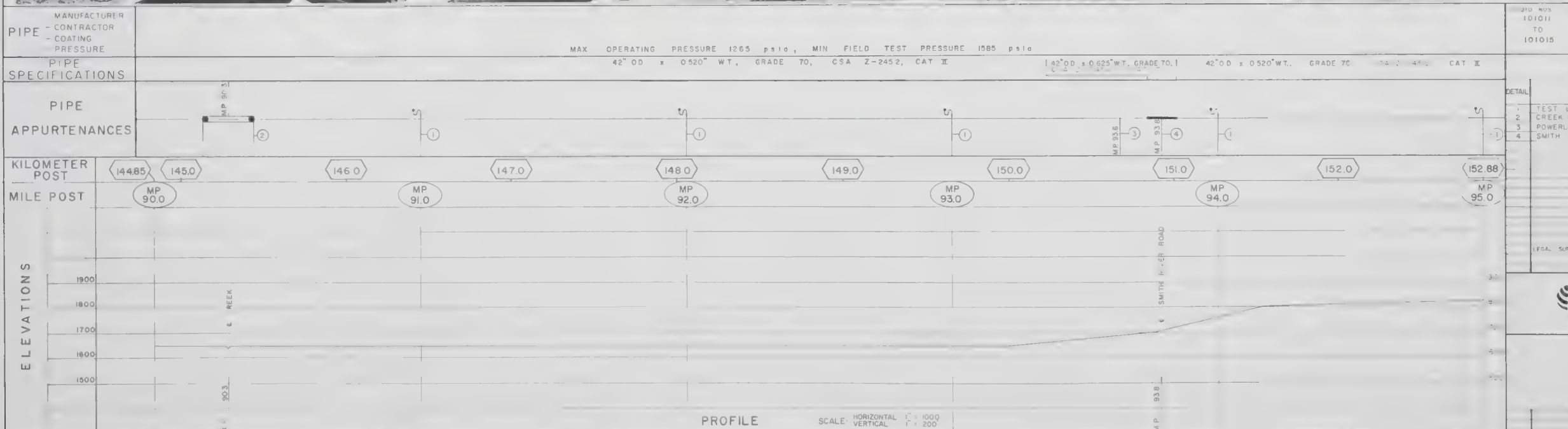
COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL



REFERENCE DRAWINGS		
DETAIL	DESCRIPTION	DWG N°
1	TEST LEAD	CP-T-405
2	CREEK CROSSING	PL-TM-126
3	POWERLINE	
4	SMITH RIVER ROAD	

LEGAL SURVEY NUMBER

ENVIRONMENT

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

POTENTIAL IS MEDIUM FOR ARCHAEOLOGICAL SITES

ACCESS ROAD MP 93.8

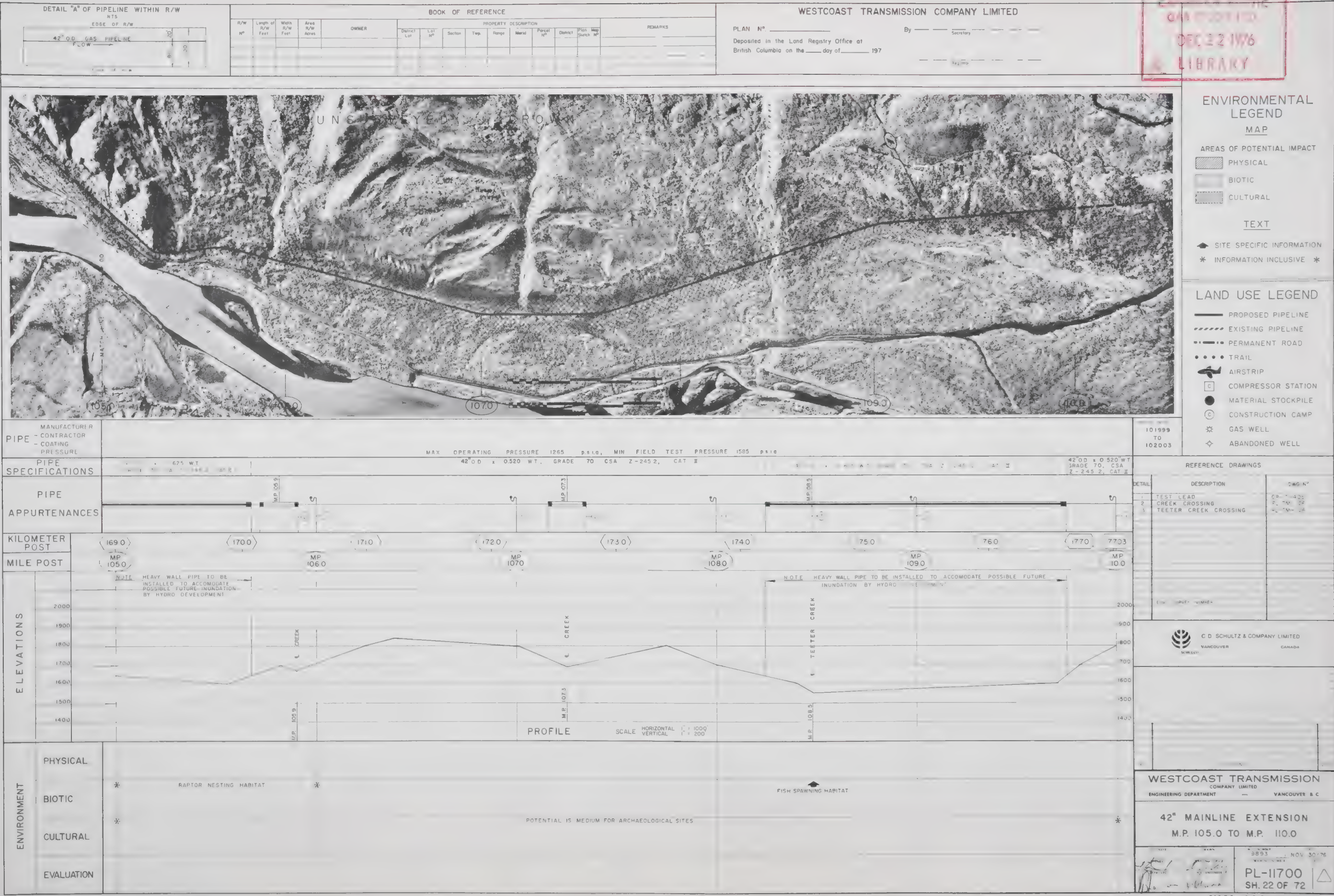
WESTCOAST TRANSMISSION
COMPANY LIMITED

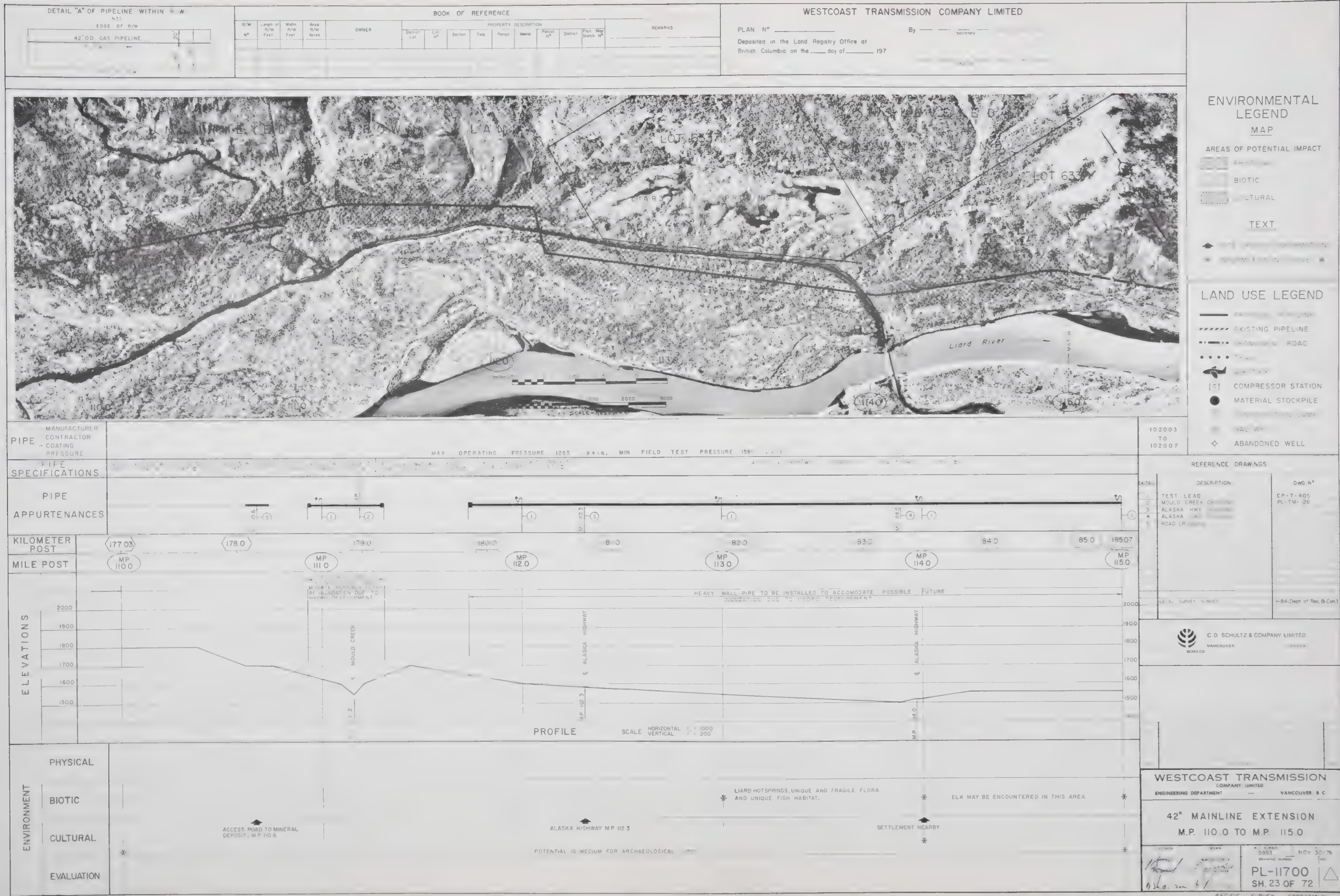
ENGINEERING DEPARTMENT

VANCOUVER & C

42" MAINLINE EXTENSION
M.P. 90.0 TO M.P. 95.0

PL-11700
SH. 19 OF 72





DETAIL "A" OF PIPELINE WITHIN R/W

EDGE OF R/W

42" O.D. GAS PIPELINE

FLOW

80' 20' 100'

EDGE OF R/W

BOOK OF REFERENCE

R/W No. Length of R/W Feet Width of R/W Feet Area of R/W Acres OWNER

PROPERTY DESCRIPTION

District Lot Section Twp Range Merid Parcel No. District Plan Map Sheet No.

REMARKS

PLAN No. _____ By _____ Secretary _____

Deposited in the Land Registry Office at _____

British Columbia on the _____ day of _____ 197 _____

Register _____

WESTCOAST TRANSMISSION COMPANY LIMITED

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIp

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

Liard River

1230

1220

1240

1250

SCALE - FEET

0 1000 2000 3000

PIPE

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2, CAT II

42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT II

MAX. OPERATING PRESSURE 1265 p.s.i.g., MIN. FIELD TEST PRESSURE 1585 p.s.i.g.

PIPE APPURTENANCES

KILOMETER POST

193.12

194.0

195.0

196.0

197.0

198.0

199.0

200.0

201.0

201.17

MILE POST

MP 120.0

MP 121.0

MP 122.0

MP 123.0

MP 124.0

MP 125.0

ELEVATIONS

1800

1700

1600

1500

1400

1300

1200

1100

1000

900

800

700

600

500

400

300

200

100

0

PROFILE

SCALE: HORIZONTAL VERTICAL

HEAVY WALL PIPE TO BE INSTALLED TO ACCOMMODATE POSSIBLE FUTURE INUNDATION BY HYDRO DEVELOPMENT

REFERENCE DRAWINGS

DETAIL DESCRIPTION DWG No.

1 TEST LEAD CP-T-405

2 CREEK CROSSING PL-TM-126

3 BLOCK VALVE ASSEMBLY

LEGAL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED

VANCOUVER CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT VANCOUVER, B.C.

42" MAINLINE EXTENSION

M.P. 120.0 TO M.P. 125.0

DATE NOV 30/76

9893

PL-11700

SH.25 OF 72

ENVIRONMENT

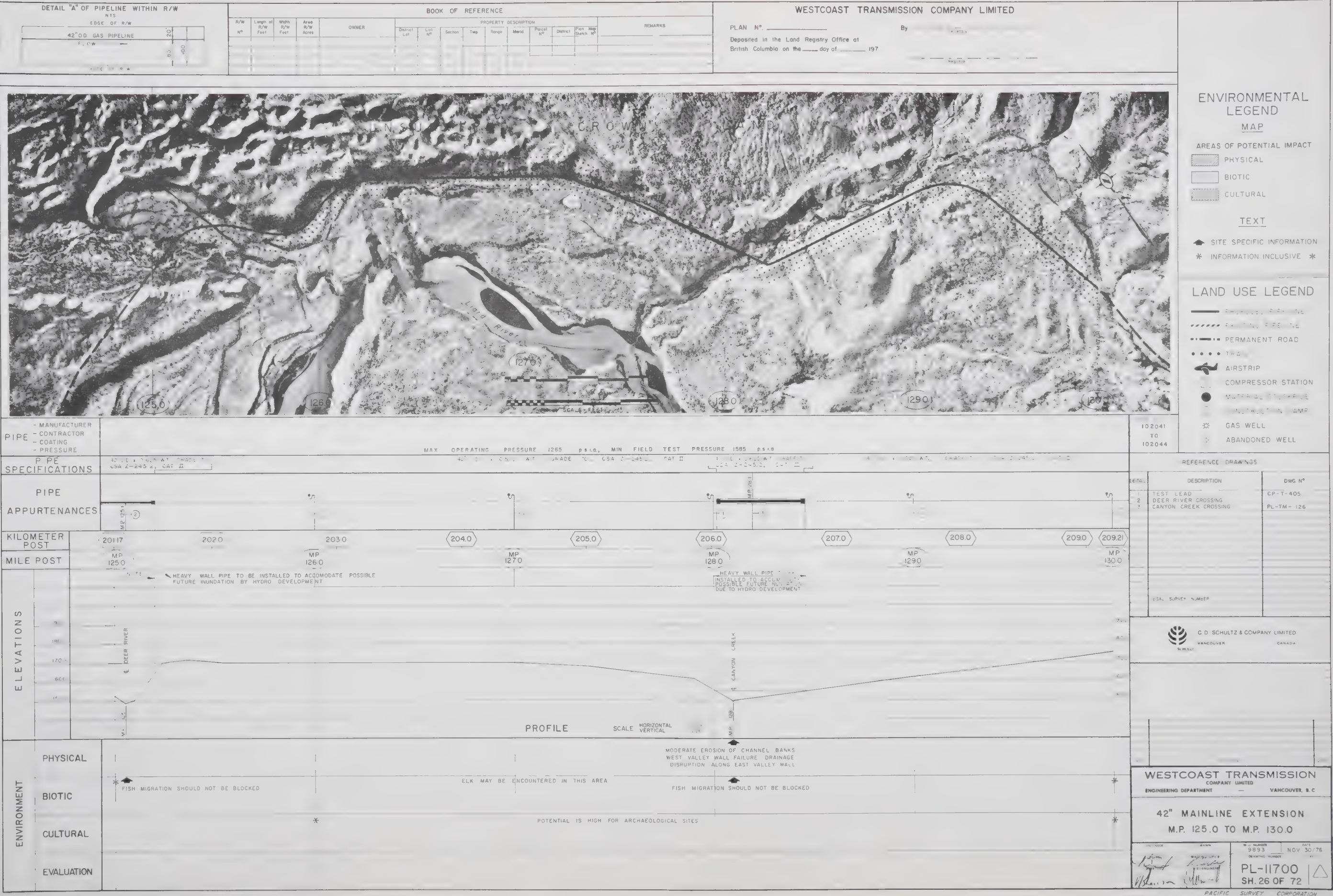
PHYSICAL

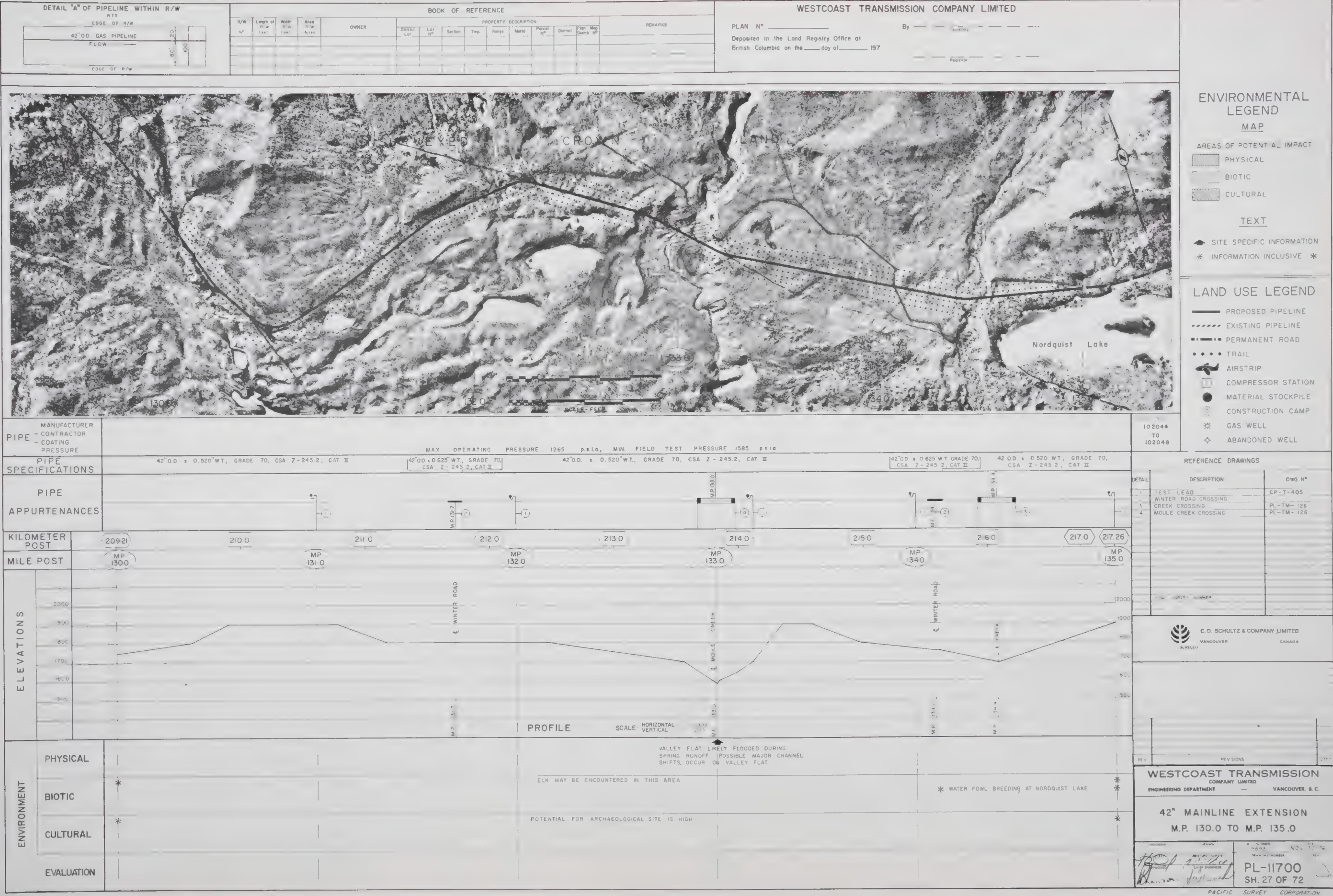
BIOTIC

CULTURAL

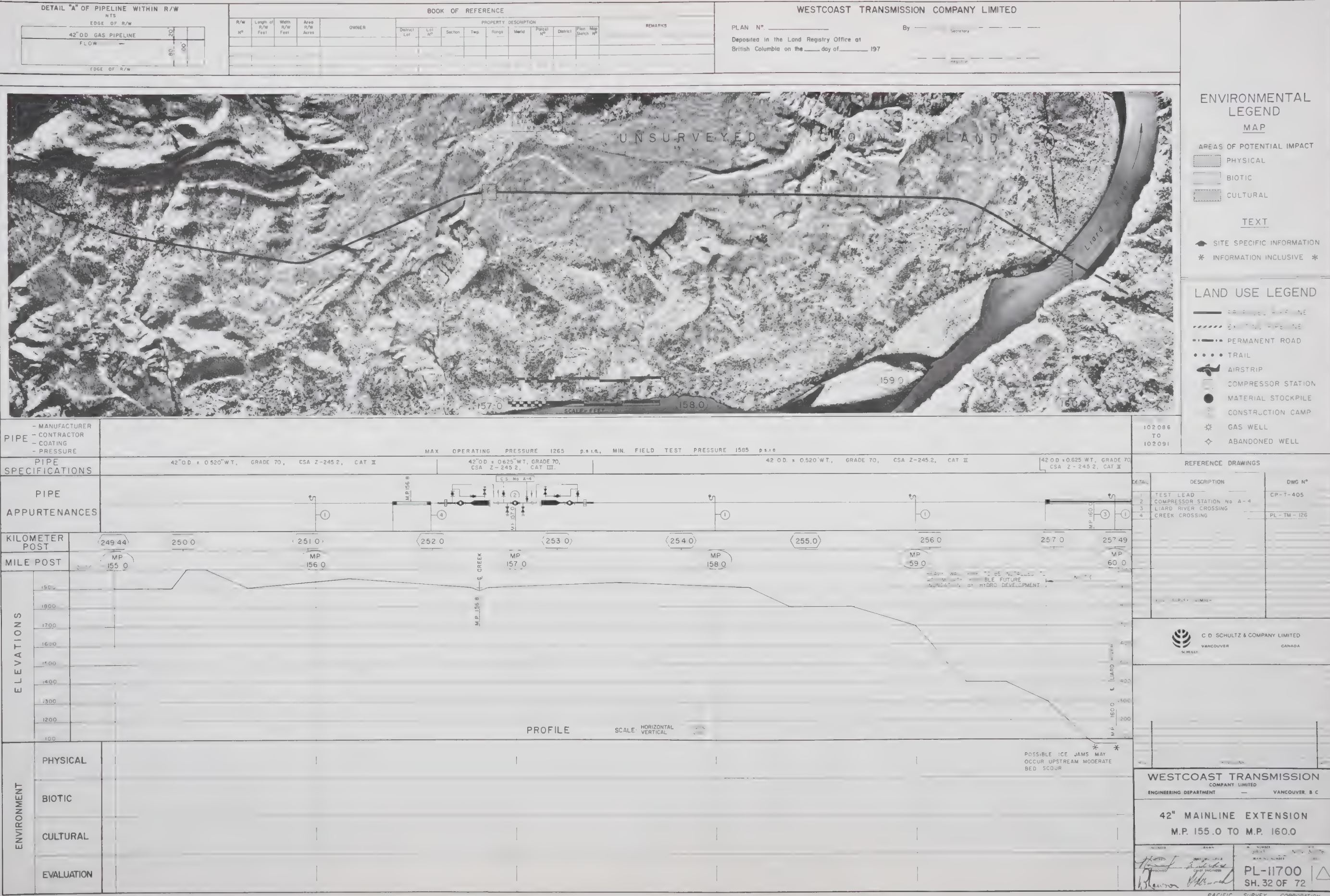
EVALUATION

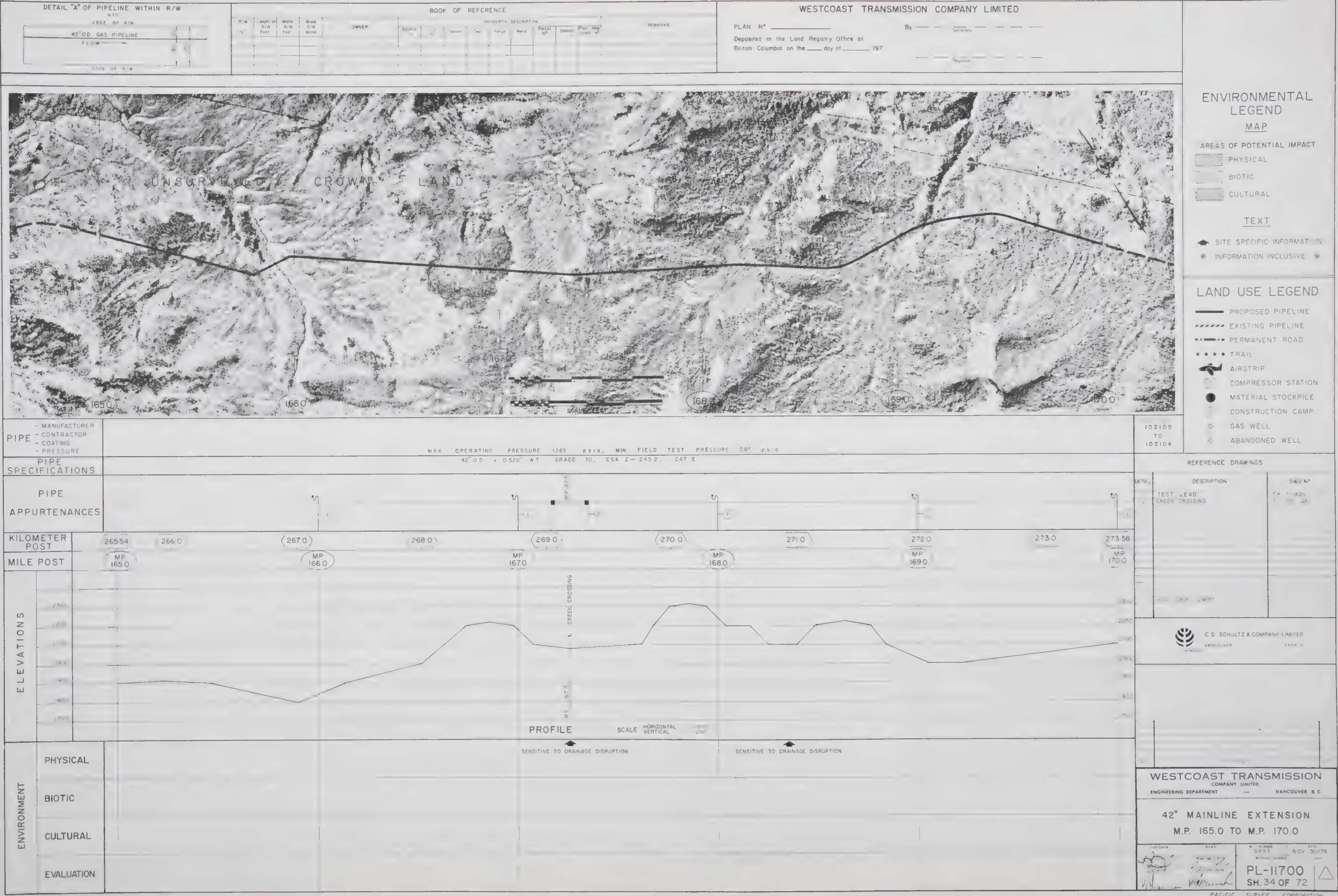
MA BE ENCOUNTERED IN THIS AREA





WESTCOAST TRANSMISSION			
COMPANY LIMITED			
ENGINEERING DEPARTMENT		—	VANCOUVER, B. C.
42" MAINLINE EXTENSION			
M.P. 145.0 TO M.P. 150.0			
ENGINEER	DESIGN	M.C. NUMBER 9893	CAL. NO. 76
<i>[Signature]</i>	<i>[Signature]</i>	DRAWING NUMBER	REV.
		PL-11700	△
		SH.30 OF 72	

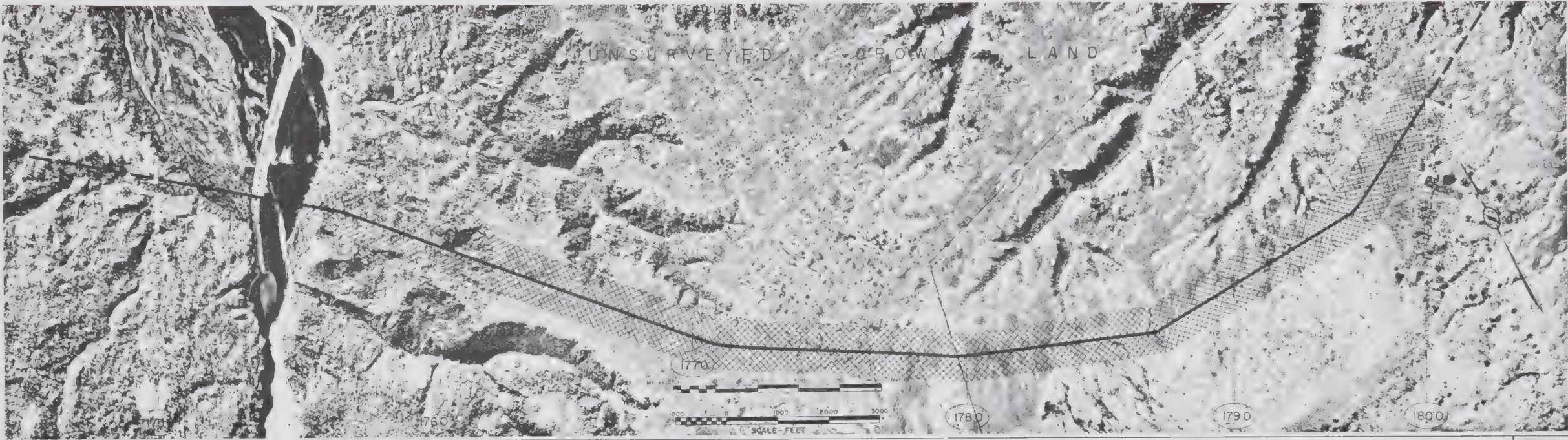




DETAIL "A" OF PIPELINE WITHIN R/W
R/W
EDGE OF R/W
42" O.D. GAS PIPELINE
R/W

BOOK OF REFERENCE
R/W
Length of
R/W
Feet
Width
R/W
Feet
Area
R/W
Acres
OWNER
PROPERTY DESCRIPTION
x
y
z
w
v
u
t
s
r
q
p
o
n
m
l
k
j
i
h
g
f
e
d
c
b
a
Parcel
No.
District
Plan
Map
Sheet
No.
REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED
PLAN N°
Deposited in the Land Registry Office at
British Columbia on the day of 197



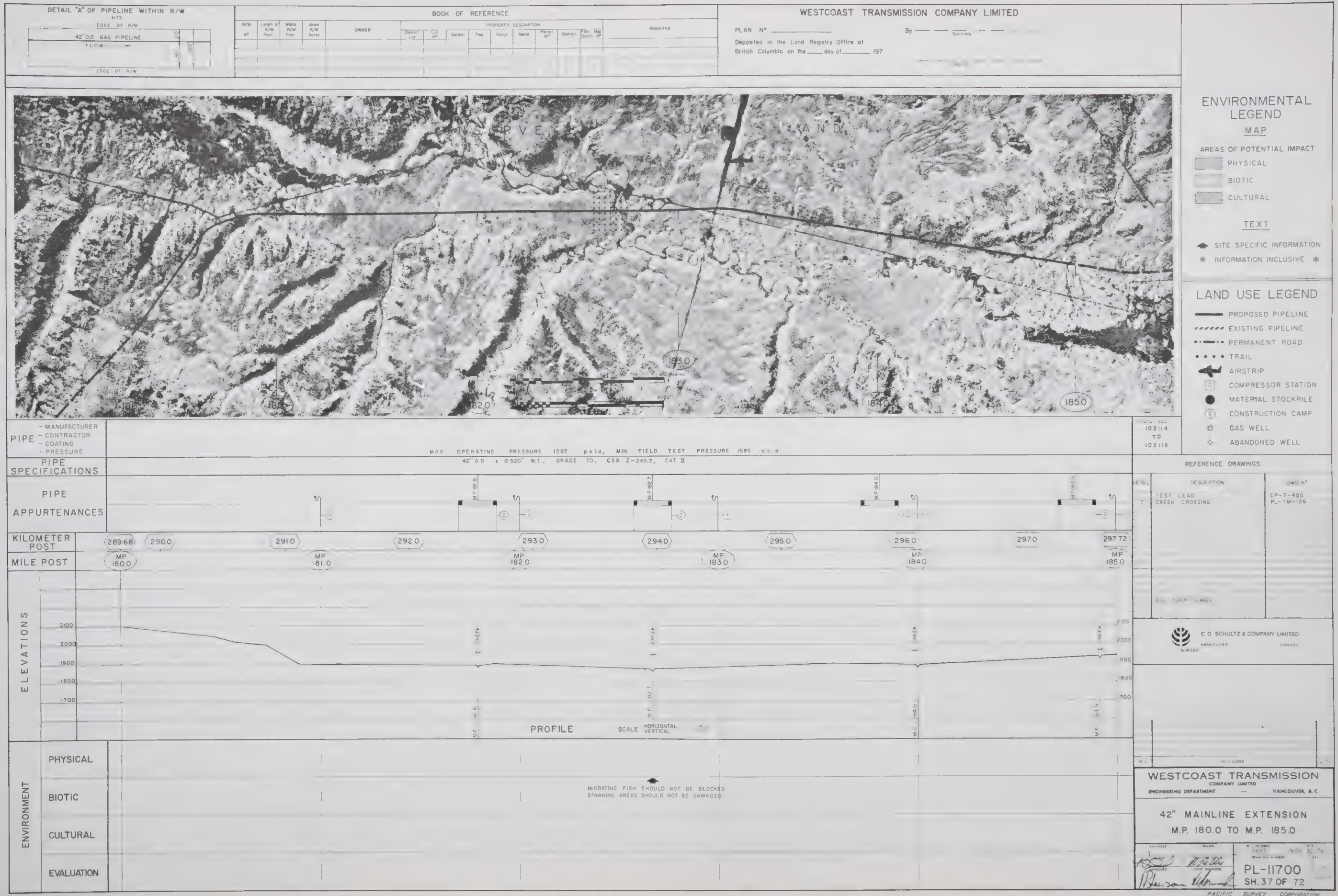
CANADIAN PATENT
GAS STUDY LTD.
DEC 22 1976
LIBRARY

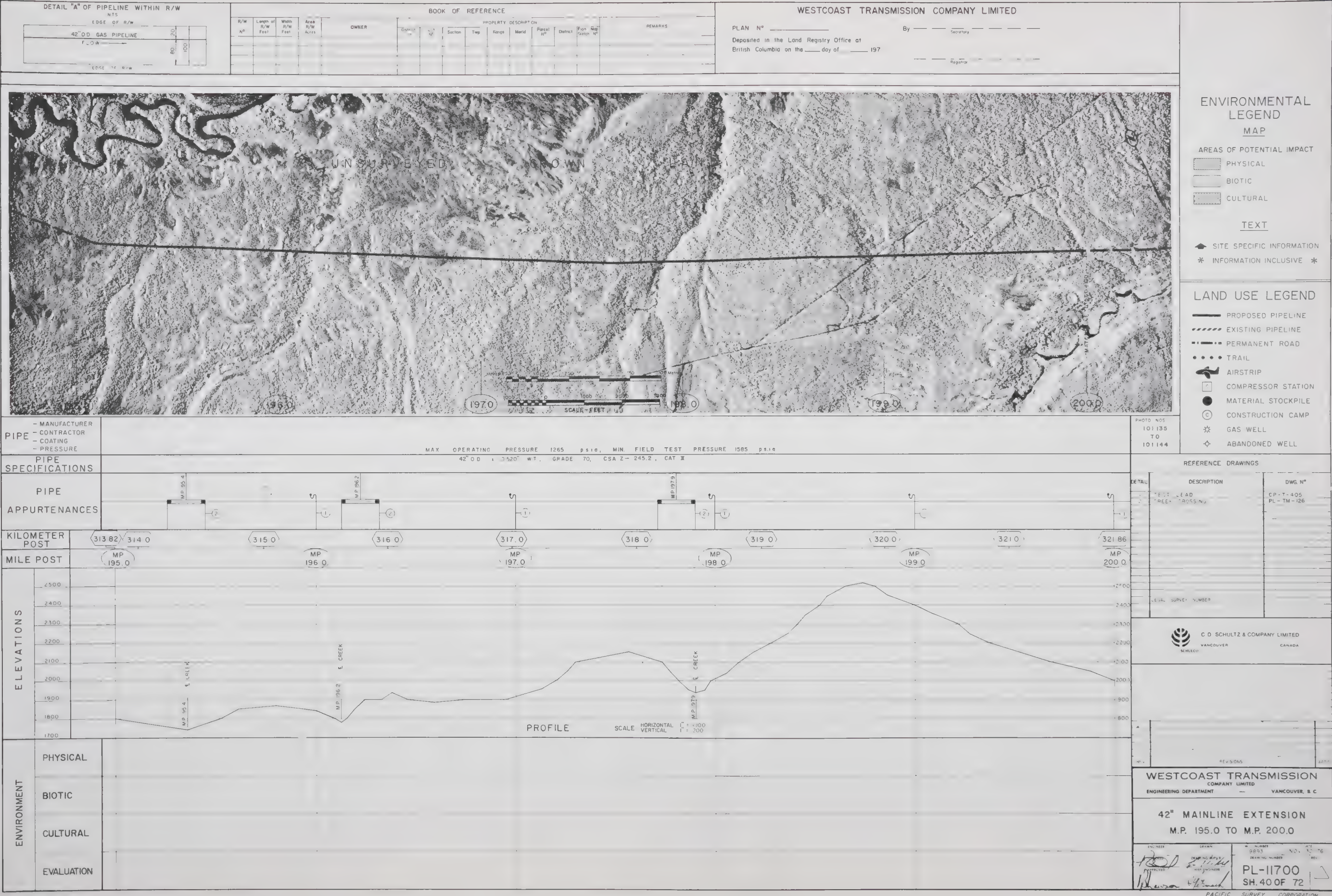
PIPE		MANUFACTURER CONTRACTOR COATING PRESSURE		MAX. OPERATING PRESSURE 1265 p.s.i.g. MIN. FIELD TEST PRESSURE 1585 p.s.i.g.		102107 TO 102111	
PIPE SPECIFICATIONS		42" O.D. x 0.520" W.T., GR 70; 42" O.D. x 0.625" W.T., GRADE 70, CSA Z-245.2, CAT II		42" O.D. x 0.520" W.T., GRADE 70, CSA Z-245.2, CAT II		REFERENCE DRAWINGS	
PIPE APPURTENANCES						DETAIL DESCRIPTION DWG. N° 1 TEST LEAD CP-T-405 2 CREEK CROSSING PL-TM-126 3 TOAD RIVER	
KILOMETER POST							
MILE POST							
ELEVATIONS							
PHYSICAL		* MASSIVE SLUMPING AND CULMING OF BOTH VALLEY WALLS. SLOPE FAILURE IN LACUSTRINE AND BEDROCK ON EAST BANK. FLOODING OF ENTIRE VALLEY FLAT LIKELY DURING SPRING RUNOFF. *					
BIOTIC		CONTINUING EROSION COULD BE DETRIMENTAL TO FISH HABITAT DOWNSTREAM					
CULTURAL		* TRAPPING TERRITORY CROSSED *					
EVALUATION							

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

42" MAINLINE EXTENSION
M.P. 175.0 TO M.P. 180.0

ENGINEER: [Signature] DATE: NOV 30/76
DRAWN: [Signature]
W.O. NUMBER: 0003
SH. 36 OF 72
PACIFIC SURVEY CORPORATION

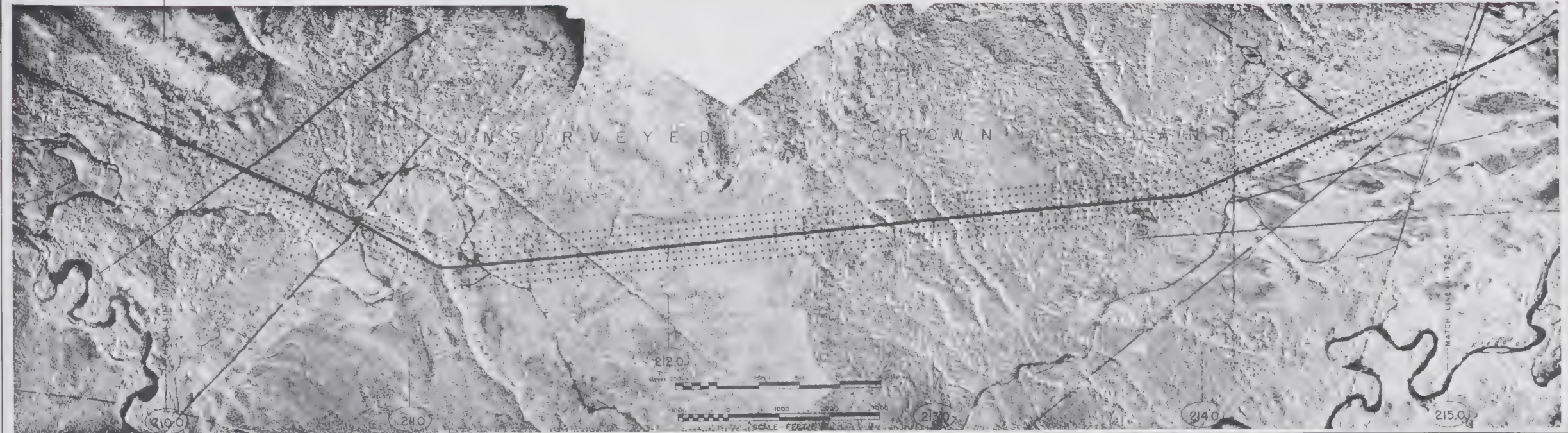




DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W
42" O.D. GAS PIPELINE
FLOW
EDGE OF R/W

BOOK OF REFERENCE
R/W
N^o
Length of
R/W
Feet
Width
R/W
Feet
Area
R/W
Acres
OWNER
PROPERTY DESCRIPTION
District
Lot
Section
Twp
Range
Merid
Parcel
N^o
District
Plan
Map
Sheet
No
REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED
PLAN N^o _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____
Registrar _____



ENVIRONMENTAL
LEGEND
MAP

AREAS OF POTENTIAL IMPACT
PHYSICAL
BIOTIC
CULTURAL

TEXT
SITE SPECIFIC INFORMATION
INFORMATION INCLUSIVE *

LAND USE LEGEND
PROPOSED PIPELINE
EXISTING PIPELINE
PERMANENT ROAD
TRAIL
AIRSTRIIP
COMPRESSOR STATION
MATERIAL STOCKPILE
CONSTRUCTION CAMP
GAS WELL
ABANDONED WELL

PIPE
- MANUFACTURER
- CONTRACTOR
- COATING
- PRESSURE

PIPE SPECIFICATIONS
MAY OPERATING PRESSURE 1265 p.s.i.g., MIN FIELD TEST PRESSURE 1585 p.s.i.g.
42" O.D. x 0.520 W.T. GRADE 70 CSA Z-245.2, CAT II

PIPE APPURTENANCES

KILOMETER POST
337.95 338.0 339.0 340.0 341.0 342.0 343.0 344.0 345.0 346.00

MILE POST
MP 210.0 MP 211.0 MP 212.0 MP 213.0 MP 214.0 MP 215.0



ENVIRONMENT
PHYSICAL
BIOTIC
CULTURAL
EVALUATION

MIGRATING CARIBOU MAY BE ENCOUNTERED DURING EARLY SPRING

REFERENCE DRAWINGS
DESCRIPTION
TEST LEAD CREEK CROSSING
DWG N^o
CP-T-405
PL-TM-126

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

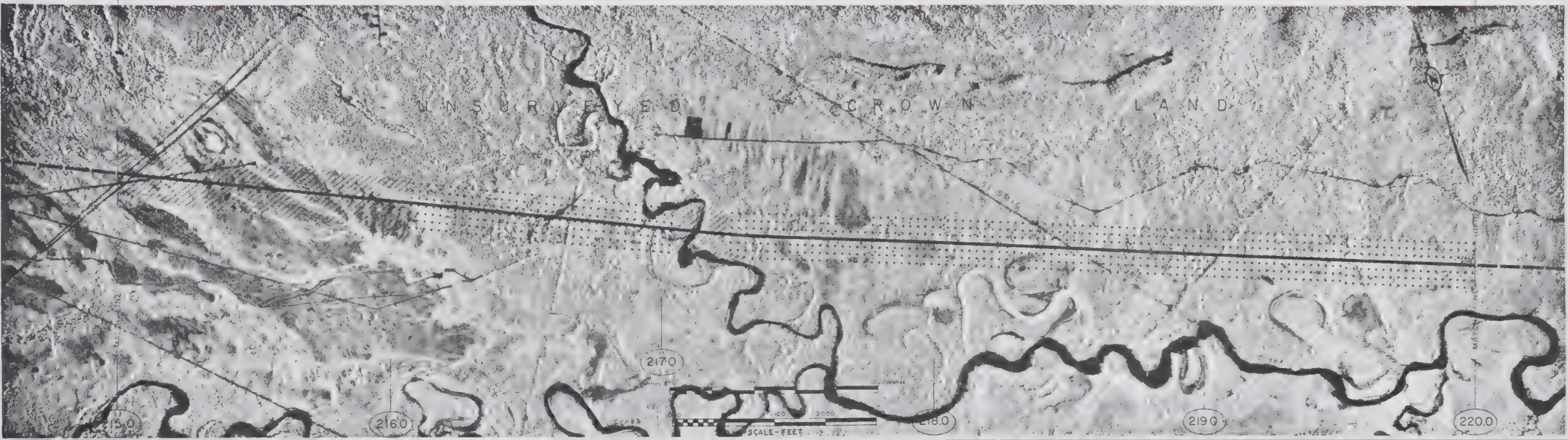
WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B. C.
42" MAINLINE EXTENSION
M.P. 210.0 TO M.P. 215.0
PL-11700
SH. 43 OF 72
PACIFIC SURVEY CORPORATION

DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W
42" O.D. GAS PIPELINE
FLOW
EDGE OF R/W

R/W ft	Length of R/W Feet	Width R/W Feet	Area R/W Acres	OWNER

BOOK OF REFERENCE									
PROPERTY DESCRIPTION									
District Lot	Lot No	Section	Twp	Range	Merid	Block No	District Plan Sheet No	Map Sheet No	REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED
PLAN N°. _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____



ENVIRONMENTAL
LEGEND
MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIp

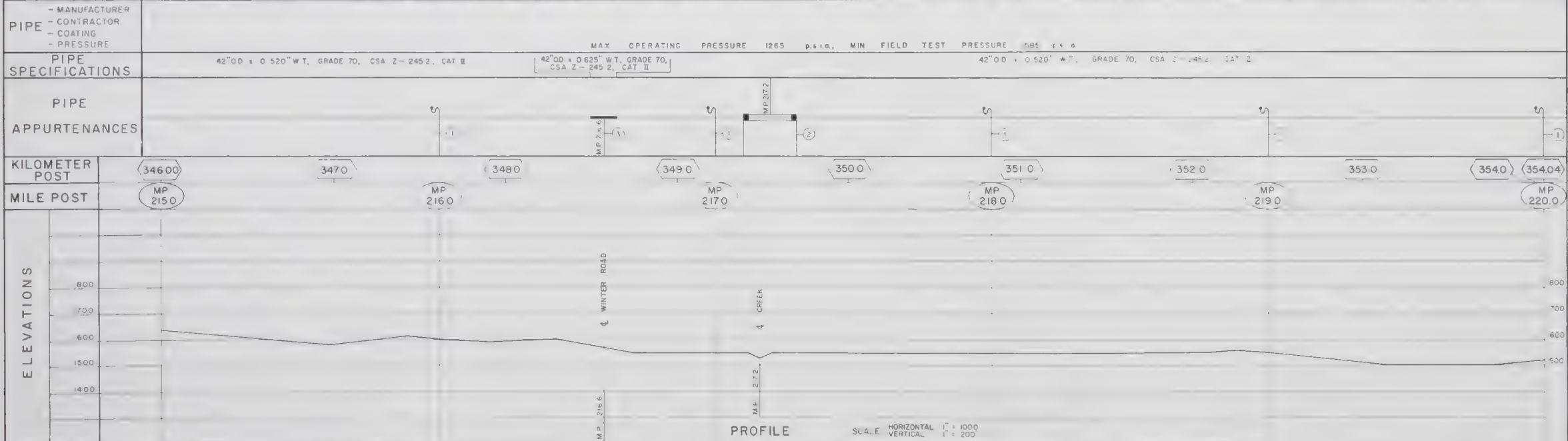
COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL



REFERENCE DRAWINGS		
DETAIL	DESCRIPTION	DWG. N°
2	TEST LEAD	CP-T-405
3	CREEK CROSSING	PL-TM-126
3	ROAD CROSSING	
E.A. SURVEY NUMBER		

ENVIRONMENT

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

* PERMAFROST MAY BE PRESENT, SUBSIDENCE AND CHANNELIZATION MAY RESULT *

* MIGRATING CARIBOU MAY BE ENCOUNTERED DURING EARLY SPRING *

FISH MAY BE PRESENT THROUGH WINTER

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

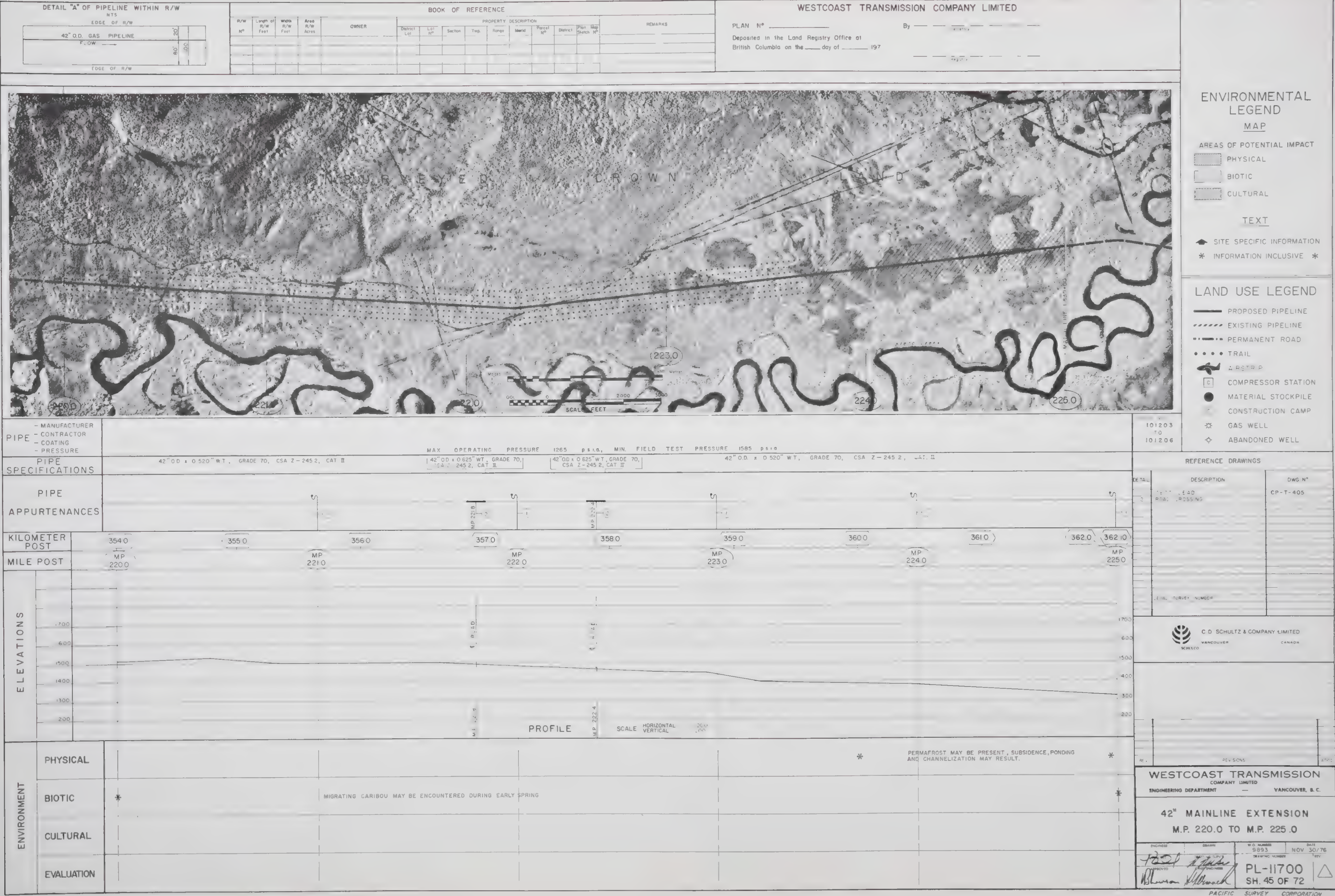
WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

42" MAINLINE EXTENSION
M.P. 215.0 TO M.P. 220.0

ENGINEER
DRAWN
CHECKED
DATE
BY

W. NUMBER
NO. 3376
DRAWING NUMBER
PL-11700
SH. 44 OF 72

PACIFIC SURVEY CORPORATION





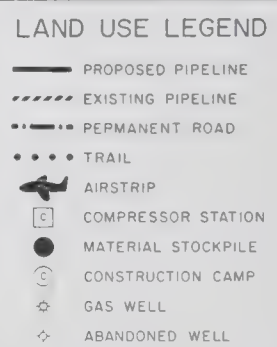
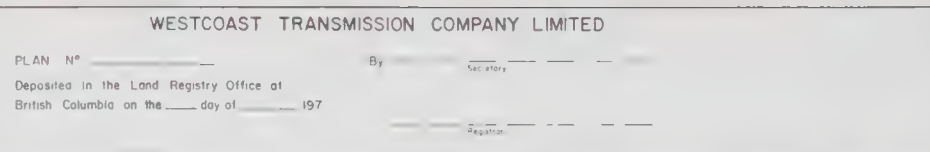


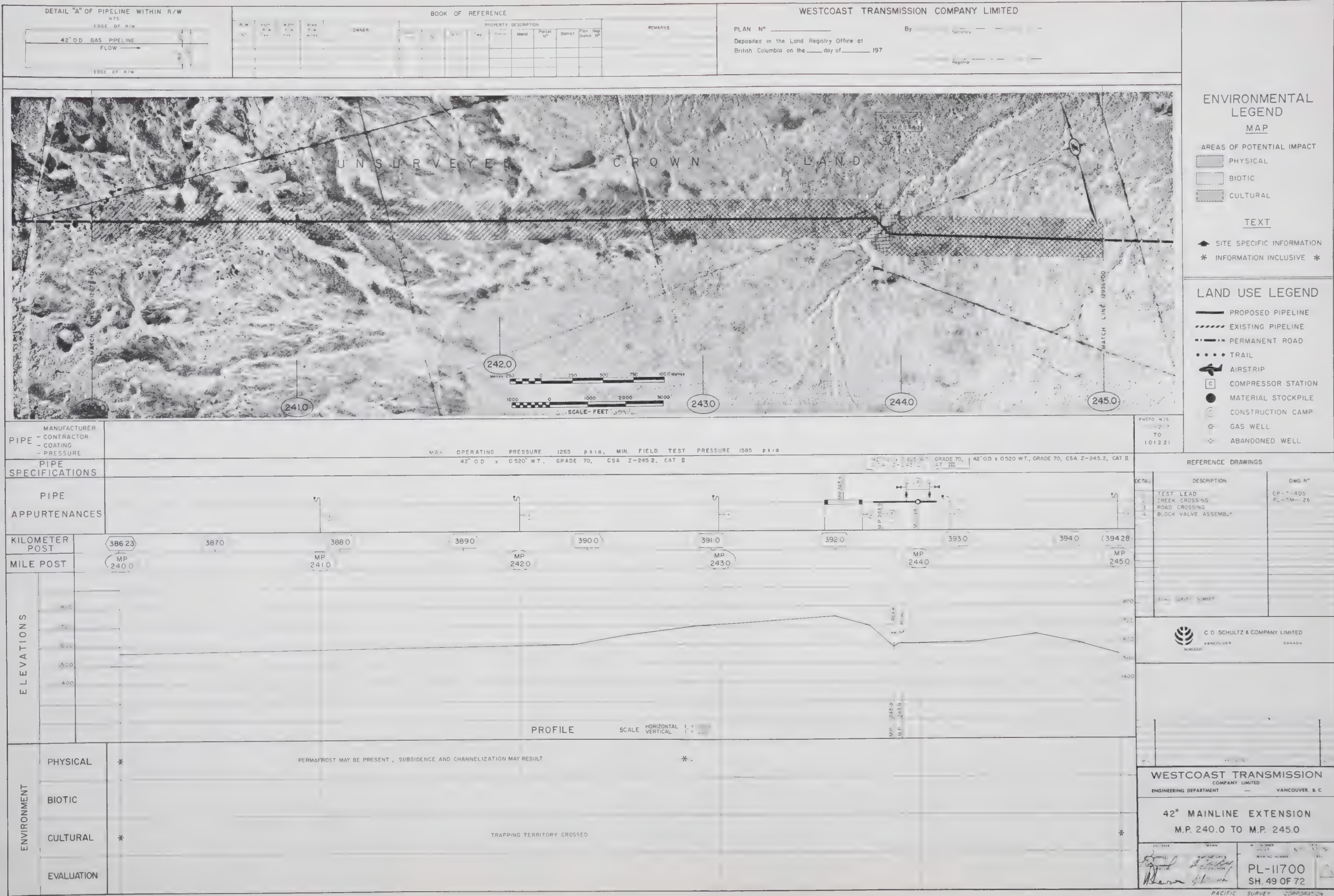
PHOTO NOS
101210
TO
101213

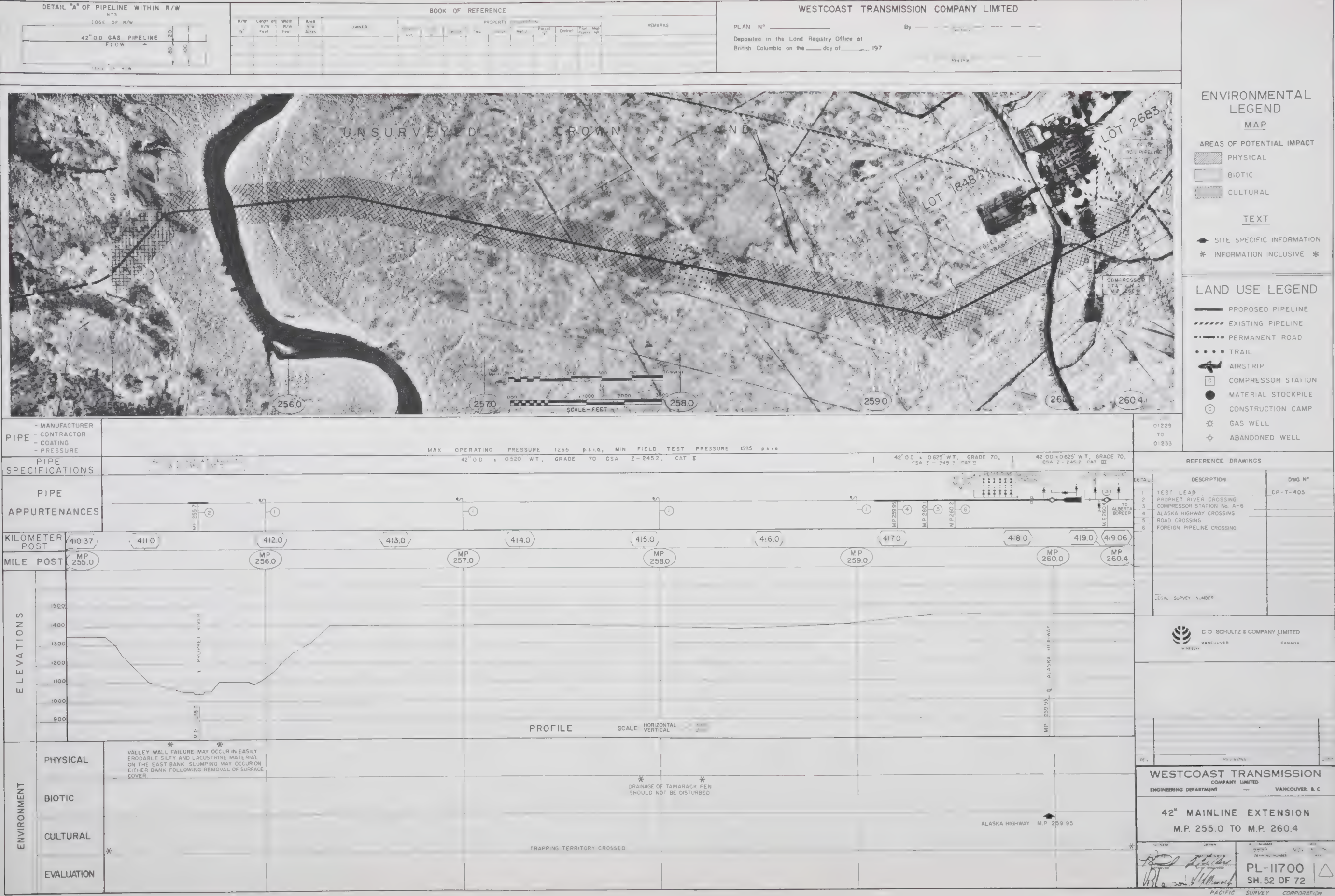
REFERENCE DRAWINGS	
DETAIL	DWG N°
TEST LEAD CREEK CROSSING	CP-T-405 PLATE 26
Creek Crossing	



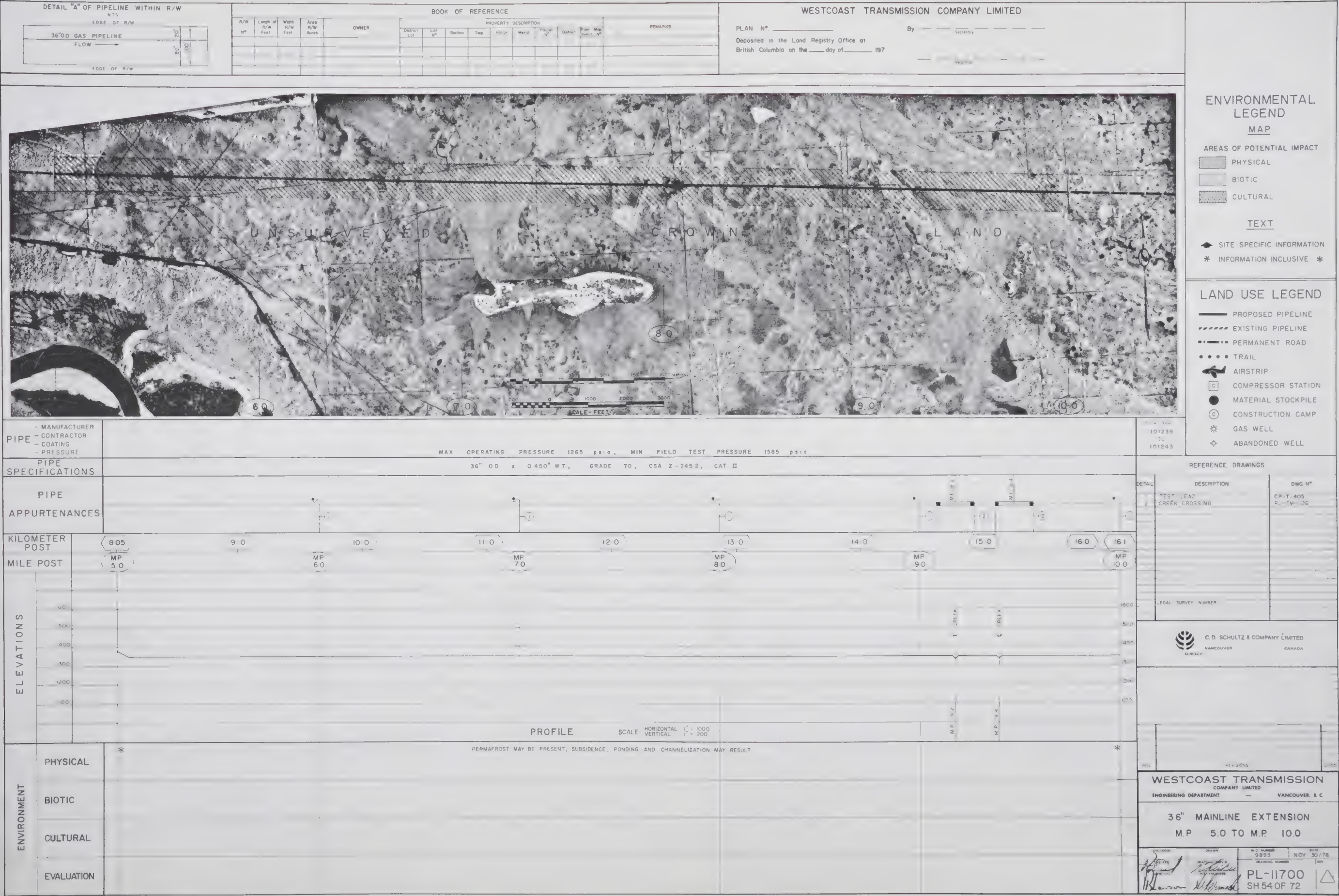
WESTCOAST TRANSMISSION		COMPANY LIMITED	
ENGINEERING DEPARTMENT		VANCOUVER, B. C.	
42" MAINLINE EXTENSION			
M.P. 230.0 TO M.P. 235.0			
DESIGNER	DRAWN	NO. OF SHEETS	DATE
<i>[Signature]</i>	<i>[Signature]</i>	9883	NOV 30/77
CHECKED	APPROVED	REVISION NUMBER	BY
<i>[Signature]</i>	<i>[Signature]</i>		
PL-11700		SH. 47 OF 72	

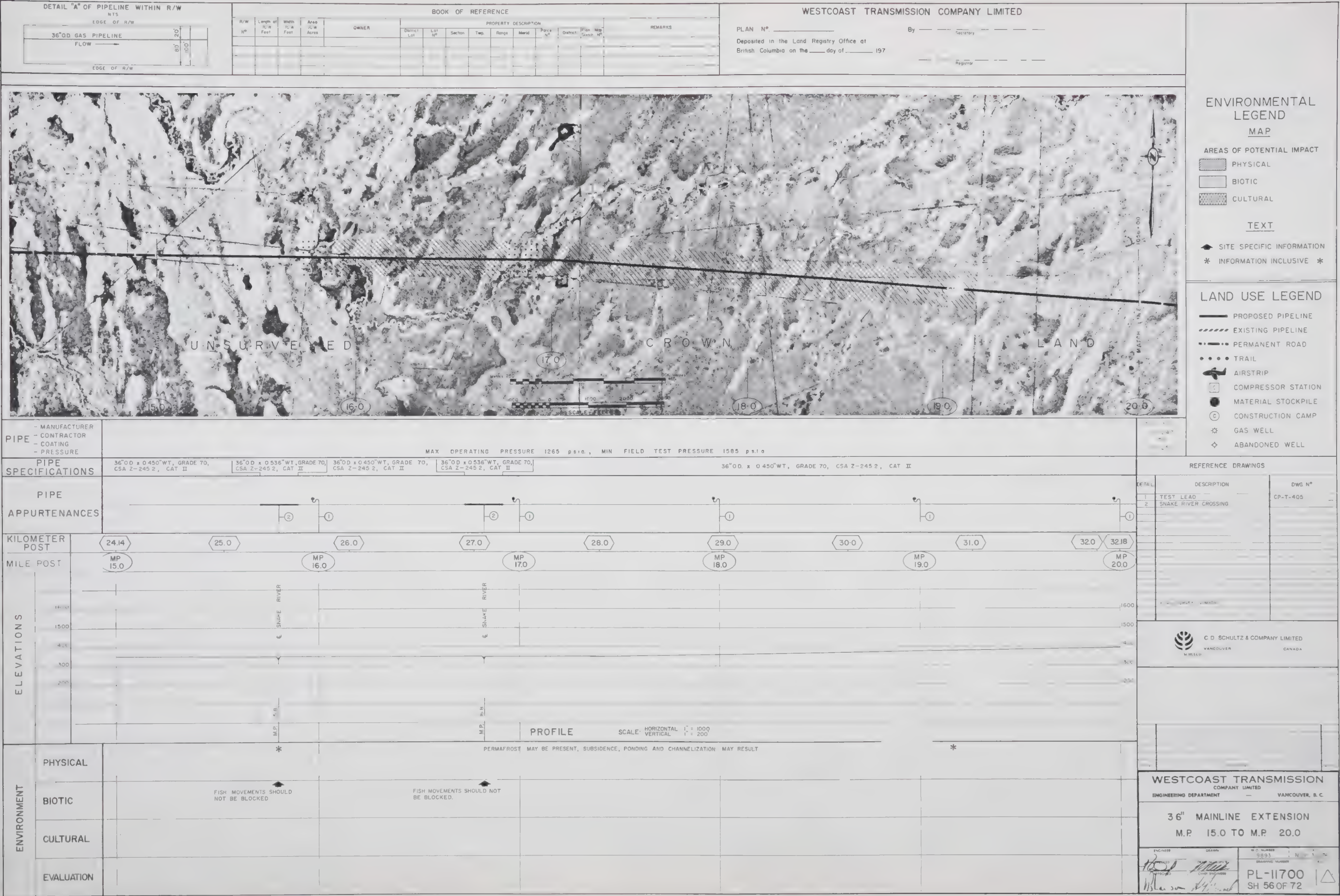
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DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W

36" O.D. GAS PIPELINE
FLOW →

80' 20'
80' 00'

EDGE OF R/W

BOOK OF REFERENCE

R/W No. Length of R/W Feet Width R/W Feet Area R/W Acres OWNER

PROPERTY DESCRIPTION

District Lot Section Twp. Range Merid. Parcel No. District Plan Map District

REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN No. _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____
_____ Secretary _____

ENVIRONMENTAL LEGEND
MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL
BIOTIC
CULTURAL

TEXT

SITE SPECIFIC INFORMATION
INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE
EXISTING PIPELINE
PERMANENT ROAD
TRAIL
AIRSTRIp
COMPRESSOR STATION
MATERIAL STOCKPILE
CONSTRUCTION CAMP
GAS WELL
ABANDONED WELL

PIPE SPECIFICATIONS

MANUFACTURER
CONTRACTOR
COATING
PRESSURE

36" O.D. x 0.536" W.T., GRADE 70, CSA Z-245.2, CAT. II

MAX. OPERATING PRESSURE 1265 psia, MIN. FIELD TEST PRESSURE 1585 psia

PIPE APPURTENANCES

PIPE SPECIFICATIONS

36" O.D. x 0.536" W.T., GRADE 70, CSA Z-245.2, CAT. II

36" O.D. x 0.450" W.T., GRADE 70, CSA Z-245.2, CAT. II

KILOMETER POST

32.18 33.0 34.0 35.0 36.0 37.0 38.0 39.0 40.0 40.23

MILE POST

MP 20.0 MP 21.0 MP 22.0 MP 23.0 MP 24.0 MP 25.0

ELEVATIONS

1600 1500 1400 1300 1200

PROFILE

SCALE HORIZONTAL 1" = 1000' VERTICAL 1" = 200'

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT

PERMAFROST

SNAKE RIVER

VALLEY MAY FLOOD DURING SPRING RUNOFF

THERMOKARST DUE TO CONSTRUCTION ACTIVITIES

MAY CAUSE INCREASED RATES OF LATERAL EROSION

REFERENCE DRAWINGS

DETAIL DESCRIPTION DWG. No.

1 TEST LEAD CP-T-405

2 SNAKE RIVER CROSSING PL-TM-126

3 CREEK CROSSING

4 BLOCK VALVE ASSEMBLY

LEGAL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

36" MAINLINE EXTENSION
M.P. 20.0 TO M.P. 25.0

ENGINEER DRAWN BY NO. NUMBER DATE
9893 NOV 30/76

PL-11700
SH 57 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W		BOOK OF REFERENCE										WESTCOAST TRANSMISSION COMPANY LIMITED			
NTS EDGE OF R/W												PLAN N° _____ Deposited in the Land Registry Office at British Columbia on the ____ day of _____ 197____			
														ENVIRONMENTAL LEGEND <u>MAP</u> AREAS OF POTENTIAL IMPACT <div style="margin-bottom: 5px;"> PHYSICAL</div> <div style="margin-bottom: 5px;"> BIOTIC</div> <div style="margin-bottom: 5px;"> CULTURAL</div> <u>TEXT</u> <div style="margin-bottom: 5px;"> SITE SPECIFIC INFORMATION</div> <div style="margin-bottom: 5px;"> INFORMATION INCLUSIVE *</div>	
- MANUFACTURER - CONTRACTOR - COATING - PRESSURE		MAX OPERATING PRESSURE 1265 psig, MIN FIELD TEST PRESSURE 595 psi													
PIPE SPECIFICATIONS		36" O.D. X 0.440 WT., GRADE 70, CSA Z-245.2, CAT II													
PIPE APPURTENANCES															
KILOMETER POST		40.23 41.0 42.0 43.0 44.0 45.0 46.0 47.0 48.0 48.28													
MILE POST		MP 25.0 MP 26.0 MP 27.0 MP 28.0 MP 29.0 MP 30.0													
ELEVATIONS	600														
	500														
	400														
	300														
PROFILE		SCALE HORIZONTAL 1" = 100' VERTICAL 1" = 200'													
PHYSICAL		* PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT *													
BIOTIC															
CULTURAL															
EVALUATION															

REFERENCE DRAWINGS

DESCRIPTION	DWG. N°
TEST LEAD	CP-T-405
PERMANENT ROAD	F.M. 26

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

36" MAINLINE EXTENSION
M.P. 25.0 TO M.P. 30.0

NOV 30 1976

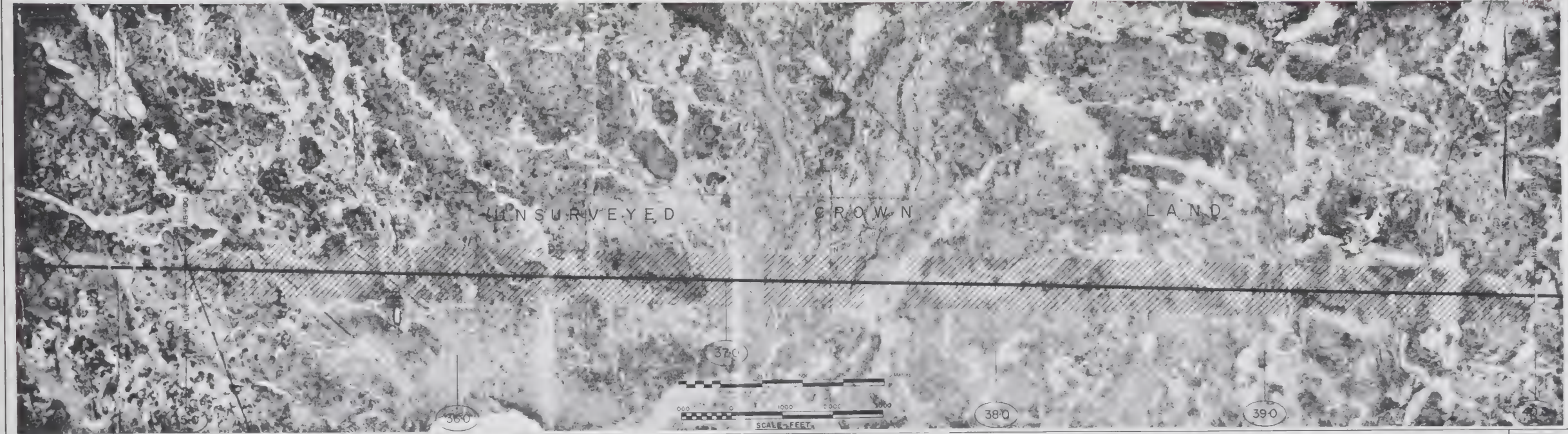
PL-11700 SH 58 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W NTS				BOOK OF REFERENCE												WESTCOAST TRANSMISSION COMPANY LIMITED	
EDGE OF R/W																PLAN N° _____ Deposited in the Land Registry Office at British Columbia on the ____ day of _____ 197	
EDGE OF R/W																By _____ Secretary _____ Registrar	
				<p>UNSURVEYED CROWN LAND</p> <p>Scale: Feet 0 1000 2000 3000</p>												ENVIRONMENTAL LEGEND MAP <small>AREAS OF POTENTIAL IMPACT</small> <div style="display: flex; justify-content: space-between;">[Hatched Box] PHYSICAL[Dotted Box] BIOTIC</div> <div style="display: flex; justify-content: space-between;">[Cross-hatched Box] CULTURAL</div> TEXT <div style="display: flex; justify-content: space-between;">[Arrow] SITE SPECIFIC INFORMATION* INFORMATION INCLUSIVE *</div>	
PIPE - MANUFACTURER - CONTRACTOR - COATING - PRESSURE				MAX OPERATING PRESSURE 1265 psia , MIN FIELD TEST PRESSURE 1585 psi												DATE: 10/25/97 TO 10/26/97	
PIPE SPECIFICATIONS				36" O.D. x 0.450" W.T., GRADE 70, CSA Z-245.2, CAT II													
PIPE APPURTENANCES																REFERENCE DRAWINGS DETAIL DESCRIPTION DWG. NO. TEST LEAD CP-T-405	
KILOMETER POST				48.28 49.0 50.0 51.0 52.0 53.0 54.0 55.0 56.0 56.33												LEGAL SURVEY NUMBER	
MILE POST				MP 30.0 MP 31.0 MP 32.0 MP 33.0 MP 34.0 MP 35.0												REVISIONS	
ELEVATIONS				PROFILE SCALE: HORIZONTAL 1" = 1000' VERTICAL 1" = 200'												C. D. SCHULTZ & COMPANY LIMITED VANCOUVER CANADA	
ENVIRONMENT				PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT												WESTCOAST TRANSMISSION COMPANY LIMITED ENGINEERING DEPARTMENT VANCOUVER, B.C.	
PHYSICAL																36" MAINLINE EXTENSION M.P. 30.0 TO M.P. 35.0	
BIOTIC																NOV 30/76	
CULTURAL																PL-11700 SH. 59 OF 72	
EVALUATION																	

DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W
36" OD GAS PIPELINE
FLOW
EDGE OF R/W

BOOK OF REFERENCE
R/W Length of Work Area
OWNER
PROPERTY DESCRIPTION
REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED
PLAN N°
Deposited in the Land Registry Office at
British Columbia on the day of 197



ENVIRONMENTAL
LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL
BIOTIC
CULTURAL

TEXT

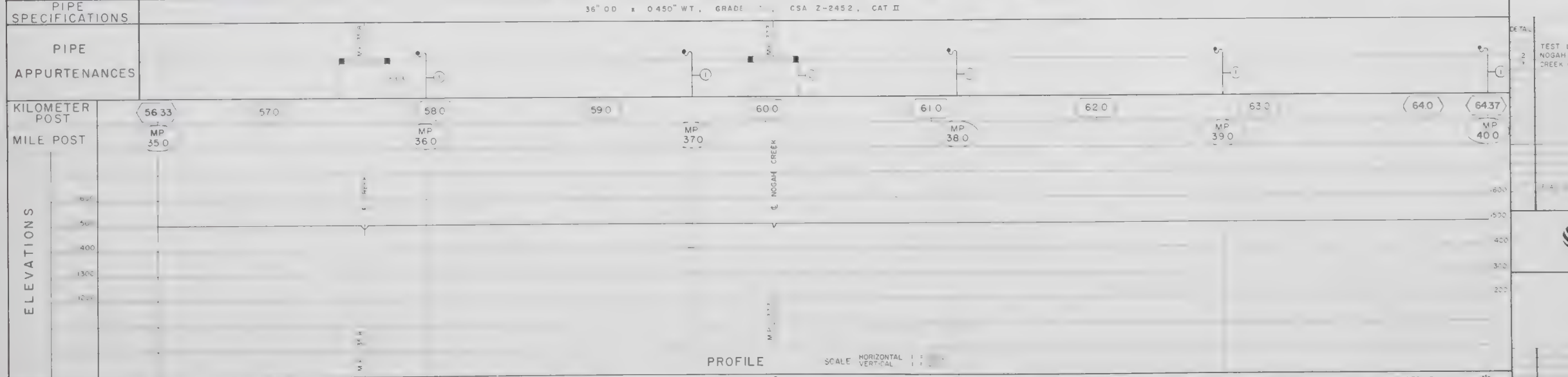
SITE SPECIFIC INFORMATION
INFORMATION INCLUSIVE

MANUFACTURER
PIPE
CONTRACTOR
COATING
PRESSURE

PIPE SPECIFICATIONS
36" OD x 0.450" WT, GRADE 50, CSA Z-245.2, CAT II

PIPE APPURTENANCES

OPERATING PRESSURE 1265 PSI, FIELD TEST PRESSURE 1585 PSI



REFERENCE DRAWINGS		
DESCRIPTION	DWG N°	
TEST LEAD NOGAH CREEK CROSSING CREEK CROSSING	CP-T-405 PL-TM-126 PL-TM-126	

ENVIRONMENT

PHYSICAL
BIOTIC
CULTURAL
EVALUATION

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT

NOGAH CREEK
CHANNELIZATION ALONG TRENCH SHOULD BE AVOIDED
THERMOKARST DUE TO CONSTRUCTION ACTIVITIES
MAY RESULT IN LATERAL INSTABILITY

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION ALONG THE TRENCH MAY RESULT

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

36" MAINLINE EXTENSION
M.P. 35.0 TO M.P. 40.0

PL-11700
SH 60 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W
NTS
EDGE OF R/W

36" O.D. GAS PIPELINE
FLOW →

80' 20'
100'

EDGE OF R/W

BOOK OF REFERENCE

R/W No. Length of R/W Feet Width R/W Feet Area R/W Acres OWNER

PROPERTY DESCRIPTION

District Lot Section Township Range Merid Parcel No. District Plan Map Sheet No.

REMARKS

PLAN No. _____ By _____ Secretary _____
Deposited in the Land Registry Office at
British Columbia on the _____ day of _____ 197 _____
Registrar _____

WESTCOAST TRANSMISSION COMPANY LIMITED

ENVIRONMENTAL LEGEND
MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL
BIOTIC
CULTURAL

TEXT

SITE SPECIFIC INFORMATION
INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE
EXISTING PIPELINE
PERMANENT ROAD
TRAIL
AIRSTRIIP
COMPRESSOR STATION
MATERIAL STOCKPILE
CONSTRUCTION CAMP
GAS WELL
ABANDONED WELL

UNSURVEYED CROWN LAND

420 430 440 450

SCALE - FEET

1000 0 1000 2000 3000

PIPE

MANUFACTURER
CONTRACTOR
COATING
PRESSURE

PIPE SPECIFICATIONS

36" O.D. x 0.536" WT, GRADE 70, CSA Z-245.2, CAT III

36" O.D. x 0.450" WT, GRADE 70, CSA Z-245.2, CAT II

MAX. OPERATING PRESSURE 1265 psig, MIN FIELD TEST PRESSURE 1585 psig

PIPE APPURTENANCES

MP 400 MP 410 MP 420 MP 430 MP 440

KILOMETER POST

64.37 65.0 66.0 67.0 68.0 69.0 70.0 71.0 72.0 72.42

MILE POST

MP 400 MP 410 MP 420 MP 430 MP 440 MP 450

ELEVATIONS

600
500
400
300
200

PROFILE

SCALE HORIZONTAL 1" = 1000'
VERTICAL 1" = 200'

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT

ENVIRONMENT

PHYSICAL
BIOTIC
CULTURAL
EVALUATION

REFERENCE DRAWINGS

DESCRIPTION DWG. No.

TEST LEAD CP-T-405
CREEK CROSSING PL-TM-126
BLOCK VALVE ASSEMBLY PL-II700-401

WESTCOAST TRANSMISSION COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

36" MAINLINE EXTENSION
M.P. 40.0 TO M.P. 45.0

ENGINEER 9893 DATE NOV 30/76
DRAWING NUMBER PL-II700 SH. 61 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W

EDGE OF R/W

36" O.D. GAS PIPELINE

FLOW

EDGE OF R/W

BOOK OF REFERENCE

R/W No. Length of R/W Feet Width of R/W Feet Area of R/W Acres OWNER

PROPERTY DESCRIPTION

District Lot Section Township Range Merid Parcel No. District Plan Map Subdiv. No.

REMARKS

PLAN No. _____ By _____ Secretary _____

Deposited in the Land Registry Office at British Columbia on the _____ day of _____ 197 _____ Registrar _____

WESTCOAST TRANSMISSION COMPANY LIMITED

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

PIPE APPURTENANCES

KILOMETER POST

MILE POST

ELEVATIONS

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

MAX OPERATING PRESSURE 1265 psia, MIN FIELD TEST PRESSURE 1585 psia

36" O.D. x 0.450" WT., GRADE 70, CSA Z-245.2, CAT II

PROFILE

SCALE: HORIZONTAL 1" = 1000'

VERTICAL 1" = 200'

REFERENCE DRAWINGS

DETAIL DESCRIPTION DWG No.

1 TEST LEAD CP-T-405

2 METLAND CR CROSSING PL-TM-26

LEVEL SURVEY NUMBER

C. D. SCHULTZ & COMPANY LIMITED

VANCOUVER CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT VANCOUVER, B. C.

36" MAINLINE EXTENSION

M.P. 45.0 TO M.P. 50.0

ENGINEER DRAWN

DATE 9893 NOV 30 76

PL-11700

SH. 62 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W
NTS

EDGE OF R/W

36" O.D. GAS PIPELINE

FLOW

EDGE OF R/W

BOOK OF REFERENCE

R/W N°	Length of R/W Feet	Width R/W Feet	Area R/W Acres	OWNER	PROPERTY DESCRIPTION										REMARKS	
					District Lot	Lot N°	Section	Twp	Range	Merid	Parcel N°	District	Block N°	Sub-Block N°		

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN N°

Deposited in the Land Registry Office at
British Columbia on the day of 197

ENVIRONMENTAL
LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

520

530

540

550

SCALE - FEET

PIPE

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

MAX OPERATING PRESSURE 1265 psid, MIN FIELD TEST PRESSURE 585 psid

36" O.D. x 0.450" WT, GRADE 70, CSA Z-245.2, CAT II

PIPE APPURTENANCES

KILOMETER POST

80.47

81.0

82.0

83.0

84.0

85.0

86.0

87.0

88.0

88.51

MILE POST

MP 50.0

MP 51.0

MP 52.0

MP 53.0

MP 54.0

MP 55.0

ELEVATIONS

600

1500

1400

1300

1200

PROFILE

SCALE: HORIZONTAL 1" = 1000'

VERTICAL 1" = 200'

ENVIRONMENT

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

REFERENCE DRAWINGS

DETAIL	DESCRIPTION	DWG. N°
TEST LEAD		CP-T-435

C. D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA

WESTCOAST TRANSMISSION
COMPANY LIMITED
ENGINEERING DEPARTMENT VANCOUVER, B.C.

36" MAINLINE EXTENSION
M.P. 50.0 TO M.P. 55.0

ENGINEER

DESIGNER

DATE

NOV 30 76

PL-11700

SH. 63 OF 72

PACIFIC SURVEY CORPORATION

DETAIL "A" OF PIPELINE WITHIN R/W

NTS

EDGE OF R/W

36" O.D. GAS PIPELINE

FLOW

80' 20'

100'

EDGE OF R/W

BOOK OF REFERENCE

OWNER

PROPERTY DESCRIPTION

REMARKS

PLAN N°

Deposited in the Land Registry Office at British Columbia on the ____ day of ____ 197

By _____ Secretary _____

Register _____

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

57.0

58.0

59.0

60.0

SCALE - FEET

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

36" OD x 0.450" WT, GRADE 70, CSA Z-245.2, CAT II

PIPE APPURTENANCES

KILOMETER POST

88.51

89.0

90.0

91.0

92.0

93.0

94.0

95.0

96.0

96.56

MILE POST

MP 55.0

MP 56.0

MP 57.0

MP 58.0

MP 59.0

MP 60.0

ELEVATIONS

1600

1500

1400

1300

1200

PROFILE

SCALE: HORIZONTAL 1" = 1000'

VERTICAL 1" = 200'

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT

PERMAFROST MAY BE PRESENT, SUBSIDENCE, PONDING AND CHANNELIZATION MAY RESULT

REFERENCE DRAWINGS

DESCRIPTION

DWG. N°

TEST LEAD

CP-T-405

C. D. SCHULTZ & COMPANY LIMITED

VANCOUVER

CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT

VANCOUVER, B.C.

36" MAINLINE EXTENSION

M.P. 55.0 TO M.P. 60.0

ENGINEER

DRAWN

CHECKED

DATE

NOV 30/76

PL-11700

SH 64 OF 72

DETAIL "A" OF PIPELINE WITHIN R/W

EDGE OF R/W

36" OD GAS PIPELINE

FLOW

EDGE OF R/W

BOOK OF REFERENCE

OWNER

PROPERTY DESCRIPTION

REMARKS

WESTCOAST TRANSMISSION COMPANY LIMITED

PLAN N°

Deposited in the Land Registry Office at

British Columbia on the day of 197

By

Register

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

SCALE - FEET

SCALE - METERS

PIPE

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

36" OD x 0.536 WT, GRADE 70, CSA Z-245.2, CAT III

36" OD x 0.450" WT, GRADE 70, CSA Z-245.2, CAT II

PIPE APPURTENANCES

KILOMETER POST

MILE POST

ELEVATIONS

PROFILE

SCALE

HORIZONTAL 1" = 1000'

VERTICAL 1" = 200'

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

REFERENCE DRAWINGS

DESCRIPTION

DWG. N°

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT

VANCOUVER, B. C.

36" MAINLINE EXTENSION

M.P. 60.0 TO M.P. 65.0

PL-11700

SH 65 OF 72

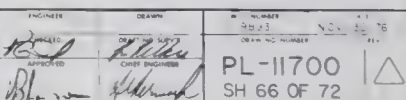
EDGE OF R/W

Secret

Regist

LIBRARY

✧ ABANDONED WELL



[illegible]

DETAIL "A" OF PIPELINE WITHIN R/W

NTS

EDGE OF R/W

36" O.D. GAS PIPELINE

FLOW

EDGE OF R/W

R/W

Length of R/W

Width of R/W

Area of R/W

OWNER

PROPERTY DESCRIPTION

REMARKS

PLAN N°

Deposited in the Land Registry Office at British Columbia on the day of 197

By

Secretary

Registrar

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIP

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

75.0

76.0

77.0

78.0

79.0

80.0

SCALE - FEET

SCALE - METERS

1:1000

1:2000

1:3000

1:4000

1:5000

1:6000

1:7000

1:8000

1:9000

1:10000

1:12000

1:14000

1:16000

1:18000

1:20000

1:22000

1:24000

1:26000

1:28000

1:30000

1:32000

1:34000

1:36000

1:38000

1:40000

1:42000

1:44000

1:46000

1:48000

1:50000

1:52000

1:54000

1:56000

1:58000

1:60000

1:62000

1:64000

1:66000

1:68000

1:70000

1:72000

1:74000

1:76000

1:78000

1:80000

1:82000

1:84000

1:86000

1:88000

1:90000

1:92000

1:94000

1:96000

1:98000

1:100000

1:110000

1:120000

1:130000

1:140000

1:150000

1:160000

1:170000

1:180000

1:190000

1:200000

1:220000

1:240000

1:260000

1:280000

1:300000

1:320000

1:340000

1:360000

1:380000

1:400000

1:420000

1:440000

1:460000

1:480000

1:500000

1:520000

1:540000

1:560000

1:580000

1:600000

1:620000

1:640000

1:660000

1:680000

1:700000

1:720000

1:740000

1:760000

1:780000

1:800000

1:820000

1:840000

1:860000

1:880000

1:900000

1:920000

1:940000

1:960000

1:980000

1:1000000

1:1100000

1:1200000

1:1300000

1:1400000

1:1500000

1:1600000

1:1700000

1:1800000

1:1900000

1:2000000

1:2200000

1:2400000

1:2600000

1:2800000

1:3000000

1:3200000

1:3400000

1:3600000

1:3800000

1:4000000

1:4200000

1:4400000

1:4600000

1:4800000

1:5000000

1:5200000

1:5400000

1:5600000

1:5800000

1:6000000

1:6200000

1:6400000

1:6600000

1:6800000

1:7000000

1:7200000

1:7400000

1:7600000

1:7800000

1:8000000

1:8200000

1:8400000

1:8600000

1:8800000

1:9000000

1:9200000

1:9400000

1:9600000

1:9800000

1:10000000

1:11000000

1:12000000

1:13000000

1:14000000

1:15000000

1:16000000

1:17000000

1:18000000

1:19000000

1:20000000

1:22000000

1:24000000

1:26000000

1:28000000

1:30000000

1:32000000

1:34000000

1:36000000

1:38000000

1:40000000

1:42000000

1:44000000

1:46000000

1:48000000

1:50000000

1:52000000

1:54000000

1:56000000

1:58000000

1:60000000

1:62000000

1:64000000

1:66000000

1:68000000

1:70000000

1:72000000

1:74000000

1:76000000

1:78000000

1:80000000

1:82000000

1:84000000

1:86000000

1:88000000

1:90000000

1:92000000

1:94000000

1:96000000

1:98000000

1:100000000

1:110000000

1:120000000

1:130000000

1:140000000

1:150000000

1:160000000

1:170000000

1:180000000

1:190000000

1:200000000

1:220000000

1:240000000

1:260000000

1:280000000

1:300000000

1:320000000

1:340000000

1:360000000

1:380000000

1:400000000

1:420000000

1:440000000

1:460000000

1:480000000

1:500000000

1:520000000

1:540000000

1:560000000

1:580000000

1:600000000

1:620000000

1:640000000

1:660000000

1:680000000

1:700000000

1:720000000

1:740000000

1:760000000

1:780000000

1:800000000

1:820000000

1:840000000

1:860000000

1:880000000

1:900000000

1:920000000

1:940000000

1:960000000

1:980000000

1:1000000000

1:1100000000

1:1200000000

1:1300000000

1:14000

DETAIL "A" OF PIPELINE WITHIN R/W

EDGE OF R/W

36" O.D. GAS PIPELINE

FLOW

EDGE OF R/W

R/W

Length of R/W

Width of R/W

Area of R/W

OWNER

District

Lot

Section

Twp

Range

Merid

Parcel

District

Plan

Map

Remarks

PLAN N°

Deposited in the Land Registry Office at

British Columbia on the day of 197

WESTCOAST TRANSMISSION COMPANY LIMITED

By

Secretary

Registrar

ENVIRONMENTAL LEGEND

MAP

AREAS OF POTENTIAL IMPACT

PHYSICAL

BIOTIC

CULTURAL

TEXT

SITE SPECIFIC INFORMATION

INFORMATION INCLUSIVE

LAND USE LEGEND

PROPOSED PIPELINE

EXISTING PIPELINE

PERMANENT ROAD

TRAIL

AIRSTRIp

COMPRESSOR STATION

MATERIAL STOCKPILE

CONSTRUCTION CAMP

GAS WELL

ABANDONED WELL

UNSURVEYED CROWN LAND

80.0

81.0

82.0

83.0

84.0

85.0

SCALE - FEET

0

1000

2000

3000

PIPE

MANUFACTURER

CONTRACTOR

COATING

PRESSURE

PIPE SPECIFICATIONS

36" O.D. x 0.536 WT, GRADE 70, CSA Z-245.2, CAT III

MAX. OPERATING PRESSURE 1265 psia, MIN FIELD TEST PRESSURE 1585 psia

36" O.D. x 0.450 WT, GRADE 70, CSA Z-245.2, CAT II

36" O.D. x 0.536 WT, GRADE 70, CSA Z-245.2, CAT II

PIPE APPURTENANCES

MP 80.0

MP 81.0

MP 82.0

MP 83.0

MP 84.0

MP 85.0

KILOMETER POST

128.75

129.0

130.0

131.0

132.0

133.0

134.0

135.0

36.0

36.79

MILE POST

MP 80.0

MP 81.0

MP 82.0

MP 83.0

MP 84.0

MP 85.0

ELEVATIONS

400

300

200

100

0

PROFIlE

SCALE

HORIZONTAL

VERTICAL

1" = 100'

1" = 20'

ENVIRONMENT

PHYSICAL

BIOTIC

CULTURAL

EVALUATION

REMOVAL OF VEGETATION MAY INCREASE RATE OF LATERAL EROSION - PARTICULARLY IF PERMAFROST IS PRESENT

HISTORIC RECORD OF AVULSION WHICH MAY RE-OCCUR

WINTERING MOOSE HABITAT

REFERENCE DRAWINGS

DETAIL

DESCRIPTION

DWG N°

1

TEST LEAD

CP-T-405

2

CREEK CROSSING

PL-TM-126

3

HAY RIVER CROSSING

4

BLOCK VALVE ASSEMBLY

C D SCHULTZ & COMPANY LIMITED

VANCOUVER

CANADA

WESTCOAST TRANSMISSION COMPANY LIMITED

ENGINEERING DEPARTMENT

VANCOUVER, B.C.

36" MAINLINE EXTENSION

M.P. 80.0 TO M.P. 85.0

ENGINEER

DESIGN

CHECKED

APPROVED

PL-11700

SH. 69 OF 72

[illegible]

[illegible]

